

SACHA JOHN WHARTON

CURRICULUM VITAE

PERSONAL DETAILS

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- Nationality and passport: United Kingdom; Republic of South Africa
- [Linkedin](#)
- [LinkTree](#)
- [GitHub](#)

ABOUT

I'm a platform engineer first. I've spent my career building the infrastructure that lets teams ship confidently and quickly.

Organisations struggle with slow deployments, fragile legacy systems, and development teams blocked by infrastructure complexity. I solve these problems by modernising systems, containerising monoliths with Kubernetes, and enabling GitOps workflows that remove friction from delivery.

I've led cloud migration initiatives that transitioned entire codebases to modern infrastructure, significantly reducing deployment times and enabling self-service capabilities for application teams.

Currently, I build engineering platforms that empower developers to deliver faster and more reliably. I focus on creating golden paths that reduce cognitive load, treating developers as customers, and building platforms that enable self-service deployment.

Why I'm valuable to your team:

I bring deep DevSecOps expertise and a track record of elevating team capabilities through mentoring and hands-on engineering. I don't just build infrastructure—I teach teams to own it, transferring knowledge and establishing best practices that outlast my involvement. Whether leading a Centre of Excellence or embedding with a delivery team, I improve both the technical platform and the people who build on it.

Let's build solutions that don't just work—they evolve and scale with the future of technology.

What I bring:

- Certified Platform Engineering Professional with a product-first mindset
- Deep expertise in multi-cloud platforms (AWS, Azure, GCP), Kubernetes, Terraform, and GitOps
- Experience in regulated financial environments and global asset managers
- Track record of training teams to work independently with self-service platforms
- Focus on reducing cognitive load through golden paths and developer-centric tooling

How I can solve your problems:

I believe great infrastructure is invisible—it just works. I build platforms that remove friction, enable self-service, and communicate measurable value to executive stakeholders.

INDUSTRY AWARDS

Continuous Delivery Foundation 2023 Award for Most Valuable Contributor (Ortelius)

COMMUNITY OPEN-SOURCE CONTRIBUTION

Ortelius

[Ortelius](#) is an open-source global community project headed by Steve Taylor (CTO) and Tracey Ragan (CEO) of DeployHub, Sante Fe, USA. It is a Cloud Native Central Evidence Store and DevOps Intelligence Actionable that visualises and maps microservice architecture and configurations, from packaging to deployment, with relationships to the applications that use them – microservice configurations are versioned and tracked across the software supply chain enabling DevSecOps observability. We are an official [Continuous Delivery Foundation \(CDF\)](#) project and have been awarded a substantial grant from the [XRP Ledger Foundation](#). I have been an active member of Ortelius since 2020 and am on the Governing Board and Technical Oversight Committee. My primary role is within the Architecture team. I also represent the open-source community on the CDF Governing Board.

Own initiatives:

Architecting and building a complete Cloud Native Developer Platform using GitOps on a nine node Kubernetes cluster at home. I am writing an ongoing blog series outlining the process called 'How to bake an Ortelius Pi' on the [Ortelius blog](#). See my portfolio on [LinkTree](#) for more detailed information on industry presentations and blogs.

EMPLOYMENT HISTORY

Associate Principal Engineer in the Platform Engineering Team at Nagarro

January 2025 – Present

Nagarro is a global digital engineering leader providing digital product engineering, cloud-native solutions, DevOps transformation, platform engineering, and AI/ML services across 39 countries as an AWS, Microsoft, and Google Cloud partner. My role as Associate Principal Engineer and joint Team Lead is split between engineering and client engagement.

I am currently outsourced to a global print manufacturing enterprise client in Germany where my work has included:

Predictive Maintenance Bots for Printing Press

Developed AI-powered predictive maintenance bots for sheetfed printing press machinery:

- Application development, diagramming and documentation for the following Prediction Bots: Delivery Fans Circuit Brakers Tripped; Logotronic Error; Low Air Pressure; Measuring System Error; Press Restart Monitor; Root Cause Analysis Abnormal Initialisation; SIS Sensor Error

Technical implementation:

- BigQuery SQL for historical log analysis (message IDs, OIDs, timestamps)
- Python bot configurations with parameterized thresholds (finding/case creation, auto-reset timers)
- Automated Salesforce case creation with queue assignment and priority routing
- Tech stack: Python, GCP (Cloud Functions, BigQuery, Firestore, PubSub), Salesforce

Migration Toolbox: GCP Source Repositories → GitHub

Designed and implemented an enterprise-grade migration framework for transitioning 40+ repositories across 3 GCP projects to Github

- Migrated over 40 applications from GCP source control repositories to Github using an automation tool which I developed in Python. The tool includes audit reports of each repository.
- Tech stack: Taskfile, Python, Git (bare clones/mirror push), GCP CLI, GitHub CLI, YAML configuration

User Activity Monitoring & Analytics Dashboards:

Designed and implemented a comprehensive user activity monitoring dashboard:

- New Relic Dashboards: Real-time user authentication analytics across 3 environments, managed via NerdGraph API/CLI
- KPIs: WAU, DAU, authentication success rate, MFA adoption, geographic distribution, browser breakdown
- Environment-specific filters (dev/test/prod) + internal employee segmentation
- Cost-Optimised WAU Dashboard: Serverless data pipeline replacing expensive New Relic Core seats
- Architecture: New Relic NerdGraph API → Google Apps Script → Google Sheets → Google Sites
- Automated daily sync, 90-day data retention, week-over-week trend analysis
- Stakeholder-friendly dashboard with no New Relic license required
- Tech stack: New Relic (NRQL, NerdGraph API), Google Apps Script, Google Sheets/Sites, JavaScript

K6 Load Testing Framework

- Designed and developed a comprehensive load testing suite for three enterprise IIoT applications supporting 3 environments (dev/test/prod):
- WebSocket testing for real-time AI chatbot with custom metrics (connection time, message latency, ping/pong success)
- REST API testing for analytics dashboard (13 endpoints) and user portal (16 endpoints)
- Browser automation with Playwright for JWT token extraction and frontend testing
- Dynamic load profiles (smoke, standard, high-load, spike, soak, breakpoint) supporting up to 1,000 concurrent users
- Automated reporting pipeline with Google Drive upload and centralized web dashboard (Google Sites + Apps Script)
- Tech stack: K6, JavaScript, Playwright, Google Apps Script, Taskfile automation

Own initiatives:

- DevOps for Africa: Mentoring and coaching young developers and engineers
- FLO international conference presentation and workshop on LocalStack and reconceptualising developer environments at enterprise level
- Banking and Finance internal presentation on LocalStack

Senior DevOps Engineer at i1 Solutions

June 2023 – December 2024

i1 Solutions is an IBM Platinum solutions partner providing solutions with Cloud DevOps, custom Development, Application Integration, Data Transfer, Business Automation and Robotic Process Automation. My role as a Senior DevOps Engineer was to lead our client and internal DevOps processes as well as building a robust set of tools to propel efficiency, security and cost-effectiveness.

I was also outsourced to a large South African retailer in their Application Integration Technology division where my primary contribution included:

- Building continuous integration for AWS Glue Jobs using Jenkins Pipelines and a Jenkins Shared Library
- Building continuous integration for AWS Lambda Jobs using Jenkins Pipelines and a Jenkins Shared Library to be deployed with Terraform
- Building a POC utilising Windows Server 2019, TFS 2018 Update 3, Apache Maven, IBM ACE, Citrus Framework to showcase the automation and deployment of IBM MQ jobs to MQ nodes

Own initiatives:

- Centralising API communication using Pipedream to provide build, PR and commit notifications to dedicated channels in Discord which enables a continuous feedback loop for developers
- Jira, Bitbucket and Smart Commit integration
- DevOps Confluence project space to document, strategise and educate internal teams on DevOps and automation practices
- Bitbucket Pipelines for the containerisation of Kotlin, Golang and Python containers
- POC of Ox Security platform for developers to gain insight into coding vulnerabilities and how to mitigate such vulnerabilities and to provide SBOM and PBOM reports; auto-create Jira tickets for vulnerabilities
- POC of JFrog and CloudSmith artefactories for developers to securely store dependencies, Docker images, TF modules and IBM tooling
- POC of Slim.Ai for in-depth container scanning and feedback to developers
- Architecting and building a complete Cloud Native developer environment using the following technologies:
 - HA Proxy load balancer and reverse proxy
 - KeepaliveD for seamless HA Proxy failover
 - K3s for Kubernetes
 - ZertoTier for private Dev anywhere networking
 - WireGuard for private Dev anywhere networking
 - Harbor Private Container Registry
 - PostgreSQL Server
 - Bitbucket runners using Docker
 - LocalStack for AWS simulated Cloud Environment

Senior DevOps Engineer at Kubevisor

April 2021 – May 2023

Kubevisor builds teams of specialists to work alongside clients on cloud native, machine learning and data science projects. As a Senior DevOps Engineer outsourced to Allianz Technologies in Germany, I specialised in containerising monolithic applications (Angular / NodeJS, Spring Boot front- and backends, Python and PostgreSQL, MySQL and Oracle databases) with Kubernetes and Helm, converting them to microservices architecture using the GitOps model on the AWS platform.

My role also included proof of concept, assessing and advising on application design and database architecture, diagramming new proposed architectures, cloud migration, and using Terraform to deploy cloud services. Upon successful migration, I was responsible for training and supporting application teams whilst they transition to a GitOps model.

Key responsibilities:

- Initial client meetings and architecture assessment
- Architecture diagramming
- Breaking up the application code into poly repos
- Containerisation: Jenkins, CodeBuild, Docker, Angular/Nodejs, Spring Boot front- and backends, Python, CI scripts, Jenkins, Nexus artifact dependencies

- Cloud Infrastructure Provisioning with Terraform including: AmazonMQ, ECR, EKS, RDS, ElastiCache, OpenSearch, Cloud9, CodeBuild, EFS, S3, Simple Queue Service, Simple Notification Service, Transfer Family, Vault, ELK
- Data migration with Terraform including: PostgreSQL, MySQL, Oracle
- Microservice configuration: Helm charts, application configuration, parameterisation with ArgoCD
- Onboarding and training of application teams – GitOps process
- Handover documentation; ongoing support and guidance
- Co-convening, conception and running of Developer Hackathons for global client teams

Own initiatives:

- Built developer microservices environment based on Terraform, Kind and Docker
- Created detailed GitHub wiki documentation (cookbook) of the platform and migration processes which is now used by all teams
- Integrated Jira with GitHub Enterprise so that commits are visible in the Jira ticket
- On-boarding of new team members and mentoring younger team members
- Built an Aurora benchmark testing pod with tools for stress testing Aurora instances
- Built a developer pod with various tools to deploy to client Kubernetes namespaces
- Built a PgAdmin pod to manage PostgreSQL instances
- Created a Terraform template to deploy a Oracle database instance for POCs
- Running a POC with LinearB to integrate Jira and GitHub repositories to assist managers and engineers to understand team capacity, process improvement and accurate reporting

DevOps Engineer at IO Digital

November 2020 – March 2021

IO Digital is a software development company which designs, builds, and scales digital products for various clients. As a DevOps Engineer, my role included:

- Building CI/CD pipelines using GitLab
- Deploying in AWS and Google Cloud
- Cloud infrastructure with Terraform
- Sentry application inspection and error tracking
- Grafana open-source observability dashboards
- AWS Route 53 DNS, simple email service, simple notification service, simple queue service
- Developer support and troubleshooting

DevOps Engineer at Responsive Digital

February 2020 – October 2020

Responsive Digital is a development house that builds software solutions through applications, digital media and marketing for financial institutions such as Old Mutual, Capitec and Nedbank. As a DevOps Engineer, my role included:

- Building CI/CD pipelines using Azure DevOps
- Building CI/CD pipelines using Bitrise
- Sonarcloud integration
- Whitesource Bolt integration and POC
- Cypress end to end testing
- Cloudflare Teams
- SSO between Google Cloud and Azure

- POC use of Terraform to deploy front- and backends in Azure

Senior Operations Engineer at Kurtosys

December 2017 – February 2020

Kurtosys is an international FinTech company providing end-to-end digital experience platforms to numerous financial institutions and asset management firms in North America, Europe and Asia such as BNY Mellon, J.P. Morgan, BMO Global Asset Management, and Aberdeen. I was responsible for managing the infrastructure that enabled the Kurtosys DXM PaaS. This entailed working across Amazon Web Services (AWS) and Microsoft Azure platforms in Europe and North America, in collaboration with hosting by Rackspace in UK and North America. Client uptime, access to real-time financial data and reporting, security, and compliancy to international data sovereignty regulations (such as GDPR) were crucial.

- Disaster Recovery with Microsoft Azure and Site Recovery
- AWS - EC2 / S3 configuration and management
- Git / Bitbucket to manage Infrastructure configuration changes
- Nginx Proxy configuration and management
- Ubuntu server 14/16 configuration and management
- Active Directory, Failover Clusters, DFS, WSUS, Hyper V, IIS
- Windows Server 2019/2016/2012 R2
- Confluence documentation and reporting
- Openstack management
- Nodejs management
- Akamai
- Cloudflare
- WordPress server new site deployments
- Certificate management for all client sites

Key Projects:

- Project managing and implementing Disaster Recovery with Microsoft Azure and Site Recovery for the production environments in UK and US. This required liaising and collaborating with diverse teams, followed by multiple dry runs, troubleshooting and documenting the process in a detailed runbook.
- Project managing and migrating over 200 virtual machines within the 3-month window in the Rackspace London datacentre.
- Conceptualising and deploying a patch management solution using WSUS across the entire Kurtosys windows ecosystem.
- Conceptualising and implementing better communication and reporting protocols regarding changes within the production, release and development environments.
- Part of a task force to improve site performance for BNY Mellon.
- Developing a new process of recording all technological issues that did not require incident reports.
- Creating an onboarding process to familiarise new team members with our tools and company protocols.

Senior Systems Engineer at Safarinow.com

January 2010 – November 2017

Safarinow is an international online accommodation booking, payment and reporting portal, the largest for South African and East African venues. I managed the production, staging and development infrastructure

and end-to-end connectivity for both the office and hosting environments.

- Configuration and management of the collocated and cloud production environment at RSAWeb (ISP) and Internet Solutions (ISP) – VMware vSphere 5.5; Windows Server 2016 / 2012 / 2008; SQL 2016 / 2014 / 2012 / 2008; IIS 7.5; Application and Routing Request server (ARR); Nginx reverse proxy; Mikrotik firewall device; MongoDB; Redis; Dell server and SAN hardware; Acronis Backup and Disaster Recovery.
- Configuration and management of the development and office environments – VMware vSphere 5.5; Windows Server 2016 / 2012 / 2008; SQL 2014 / 2012, Team Foundation Server; Octopus Deploy; IIS 7.5; MongoDB; Redis; Palo Alto PA200 firewall device; Acronis Backup and Disaster Recovery; Office 365 and Sharepoint; VPN; Scopserv VOIP; Yealink; wireless hotspot technology; Pastel Accounting.
- IT Team management through Kanban style digital board (Trello & Microsoft Teams), daily stand-ups, Freshdesk, RACI and monthly retrospectives.
- Configuration and implementation of Cloudflare.
- Configuration and management of the Qlikview Server which allowed for the decommissioning of SQL Reporting services.

Key Projects:

- Deploying and testing a complete Disaster Recovery environment on the ISP's cloud platform.
- Upgrading the web servers and reverse proxy ARRv2 (load balancer) from server 2008 Web Server Std to 2016 Server Std, IIS 10, ARRv3 and migrating the website using Web Deploy and PowerShell.
- Configuring and implementing OneLogin to manage cloud services and applications for improved security and productivity.
- Centralising the access of over 2 million website images on the Dell MD3200 SAN and implementing DFS to replicate these images to multiple web servers.
- Configuring and implementing MongoDB on Ubuntu 14 in production environment with WiredTiger database engine, and Mongo Cloud to monitor the MongoDB environment.
- Configuring and implementing a new secondary physical server with Windows Server 2012 and SQL Server in production environment with a log shipping configuration.
- Configuring and migrating users to Office 365 in a hybrid configuration.
- Replacing Forefront Threat Management Gateway 2010 with Palo Alto PA 200 hardware firewall device in the office network and configuring the rollout of wireless hotspot technology.
- Configuring and implementing staging environment for Developers which consisted of a replica of the production environment and Octopus Deploy automated deployment.
- Configuring and managing the testing of Microsoft Application Request Routing (ARR) to load balance web servers.
- Implementing and managing Freshdesk support desk ticketing system for better team management and adhering to support level SLAs within the business.
- Configuring and implementing VMware vSphere virtualisation in the collocated production environment and office environment.

Senior Systems Engineer at Louis Group International SA

February 2009 – January 2010

- Management of Louis Group International SA and Smartsurv office IT environments and infrastructure (130 users including branch offices in Johannesburg, East London, Durban, George and Port Elizabeth) – Dell server hardware; Windows Server 2008 / 2012; Microsoft Exchange 2007; Symantec Backup Exec

12.5; Eset NOD Antivirus; Microsoft SQL 2005; GTA GB 2000 firewall device; wireless network; Microsoft Windows 7 / Vista / XP Pro; Microsoft Office 2003 / 2007; VPN; Pastel Accounting.

Key Projects:

- Conceptualising and implementing the successful migration of 130 users and 150 email boxes from two active directory forests running on Windows Server 2003 and Exchange 2003 into a Windows Server 2008 and Exchange 2007 single domain active directory forest infrastructure.
- Migrated all user and department data as part of above-mentioned project.
- Consolidated the Pastel accounting and payroll application software and data to new servers.

Citrix Engineer Electronic Data Services (EDS)

October 2008 – February 2009

Citrix Engineer outsourced to BP for UK, USA and India.

- The maintaining, monitoring & servicing of 300 Citrix servers for BP.
- Maintaining and monitoring approximately 1400 applications.
- Supporting and servicing clients in UK, India and USA.
- Citrix Presentation Server 4.0 Enterprise on Windows Server 2000 / 2003.
- Citrix Metaframe XP Enterprise on Windows Server 2000 / 2003.

System Administrator Deutsche Internationale Schule Kapstad

September 2004 – September 2008

Deutsche Internationale Schule Kapstadt is a multilingual institution which forms part of a group of schools across the globe, providing primary school, middle school and high school education at German education standards. As a Systems Administrator, my role was to manage student, academic staff and administrative staff IT environments and infrastructure and perform an examiners role for ICDL.

- Dell server hardware; Windows Server 2003; Microsoft Exchange 2003; Websense Enterprise; ISA 2006/2004 firewall; Eset NOD32 antivirus; Microsoft SQL 2000; 180 Microsoft XP Pro desktops; Microsoft Office 2007 / 2003; FreeBSD mail relay server; VNC; Smartboard technology.

Information Systems Technician Lithotech Afric Mail

March 2000 – August 2004

Lithotech is South Africa's leading specialist in printing, supply management, marketing material, office supplies and labels. As an Information Systems Technician, I took care of the IT infrastructure and support within the warehouse and office environments.

- IBM Netfinity and Compaq server hardware
- Microsoft NT 4.0 server; Microsoft Exchange 5.5; 150 users on Microsoft Windows XP Pro / ME / 98 /95
- Microsoft Office 2002 / 2000; Arcserve 6.0 backup; Symantec antivirus Corporate Edition; ACCPAC financial system; VIP payroll system; Netop Remote Control; Visio 2000.
- Performed ACCPAC reporting.

EDUCATION

Platform Engineering

Platform Engineering Certified Professional

Completed January 2026

Laboursmart Training

Comprehensive Guide to Employment Equity Training

Completed January 2026

Udemy

Tekton The Quick Start

Completed January 2026

Platform Engineering

Platform Engineering Certified Practitioner

Completed August 2025

Platform Engineering

Introduction to Platform Engineering

Completed May 2025

Emerging Leaders Leading High Performance

Inspired Leadership Development

Completed Dec 2024

Emerging Leaders Path 1

Inspired Leadership Development

Completed Dec 2024

KodeKloud

GitOps with ArgoCD

Completed April 2024

Amazon Elastic Container Service (AWS ECS)

Completed January 2024

Terraform Basics Training Course

Completed December 2023

AWS IAM

Completed December 2023

Ortelius Legend Gold Contributor

Completed May 2024

Cloud Native Computing Foundation

Certified Kubernetes Administrator (CKA) certification

Completed March 2023

CAST Highlight Software Intelligence for Digital Leaders

Certified CAST Highlight certification

Completed March 2023

DevOps Institute

Site Reliability Engineering (SRE) Foundation certification

Completed January 2023

Udacity

Full Stack Web Developer Nanodegree

Completed July 2018

Coursera

University of Michigan | Database Design and Basic SQL in PostgreSQL Certificate

Completed September 2021

AWS | AWS Cloud Practitioner Essentials Certificate

Completed March 2021

Google | SRE and DevOps Engineer with Google Cloud Professional Certificate

- Google Cloud Platform Fundamentals Core Infrastructure, completed February 2021
- Developing a Google SRE Culture: passed March 2021
- Reliable Google Cloud Infrastructure: Design and Process: completed March 2021
- Logging, Monitoring and Observability in Google Cloud: completed March 2021
- Getting Started with Google Kubernetes Engine completed March 2021

University of Maryland | Cyber Security courses

- Usable Security, completed June 2016
- Software Security, completed July 2016
- Cryptography, completed April 2017

VMware

VMware Certified Professional 6 – Data Centre Virtualization

Completed January 2017

VMware Certified Professional 5.5 – Data Centre Virtualization

Completed September 2015

VMware Certified Professional 5.1 – Data Centre Virtualization

Completed March 2012

Linux Training Academy

Master Shell Scripting

Completed June 2020

Linux in the Real World

Completed June 2017

Microsoft

Microsoft Certified Professional

Completed September 2017

- Microsoft Azure Infrastructure Solutions

Microsoft Certified Solutions Expert

Completed November 2016

Microsoft Certified Solutions Expert

Completed September 2016

- Cloud Platform and Infrastructure

Microsoft Certified Solutions Associate

Completed May 2015

Microsoft Certified IT Professional

Completed May 2013

Microsoft Certified Systems Engineer

Completed June 2008

Microsoft Certified Systems Administrator

Completed September 2007

N+ Network Plus

Completed April 2002

MongoDB

MongoDB University | M102 MongoDB for DBAs

Completed December 2015

Web Publishing

Friends of Design - Web Publishing course

Completed May 2011

Red Hat

Red Hat Linux Essentials 9.0 RH033

Completed August 2003

Financial Management

South Peninsular College - Financial Management Diploma

Completed February 2001