Byron Murgatroyd

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PROFESSIONAL SUMMARY

Experienced Senior Platform Engineer with a track record of designing scalable, automated cloud infrastructure across AWS and Azure. Passionate about open-source technologies, Kubernetes, and enabling development teams through robust, self-service platforms. Proven ability to deliver high-availability systems at scale with a strong DevSecOps and observability focus.

KEY SKILLS

- Kubernetes, Docker, Terraform, Helm, GitLab CI/CD, Prometheus, Grafana
- AWS, Azure, GCP (basic exposure), RedShift, Vault, Consul
- Node.js, Golang, Python, Bash, TypeScript
- Infrastructure as Code (IaC), Observability, AIOps, Zero Trust, ISO 27001, SOC2

KEY QUALIFICATIONS

- LPIC-305 Virtualization and Containerization — Linux Professional Institute
- Edexcel Macromedia Award in Digital Applications Level 2

EXPERIENCE

Senior Engineer (Platform & Tooling) - Complexio Ltd **Sept 2025 - May 2026**

- Authored Pulumi infrastructure-as-code from scratch in Python and TypeScript, establishing version-controlled, repeatable deployment foundations for the company's Kubernetes-based platform.
- Maintained and extended an existing Pulumi codebase alongside the engineering team, introducing structure and consistency to infrastructure definitions as the product scope evolved.
- Developed and maintained Helm charts for packaging and delivering the platform into customer Kubernetes clusters, supporting a range of deployment configurations across diverse environments.
- Led deployments into on-premises and customer-managed infrastructure, working directly with client infra teams to navigate non-standard environments and bridge gaps in modern containerisation knowledge.
- Contributed to the company's transition toward a SaaS platform delivery model, shaping the deployment architecture and tooling required to onboard enterprise customers from a shared product baseline.

technologies used: Kubernetes, Azure, Pulumi, Python, Typescript

Contracting - Various **July 2024 - Sept 2025**

- DevOps consulting for various companies from SMEs to large enterprises.

Senior Platform Engineer - Builder.AI **Sept 2023 - June 2024**

- Designed and implemented a modular, cloud-agnostic application delivery platform supporting Builder.ai's ML workloads, enabling seamless and scalable deployment of AI-generated applications across diverse environments.
- Orchestrated and maintained over 3,000 Kubernetes clusters distributed across Azure and AWS, ensuring consistent high availability, fault tolerance, and cost-efficient auto-scaling capabilities.
- Spearheaded the development and rollout of a comprehensive security compliance and auditing framework, significantly improving governance and traceability across the entire platform estate.
- Integrated real-time telemetry from Kubernetes clusters and CI/CD pipelines into AWS RedShift, enhancing visibility and enabling data-driven operational insights for platform reliability and performance.
- Collaborated cross-functionally with DevOps, ML, and Product teams to streamline deployment workflows, accelerate iteration cycles, and uphold security best practices across environments.

technologies used: Kubernetes, GitLab, Vault, Go, Python, Ruby, Azure, AWS

DevOps Senior Consultant - Radically Digital **Apr 2022 - Sept 2022**

- Led the design and implementation of secure, scalable, and production-grade AWS environments using Infrastructure as Code (IaC) principles with Terraform and automated CI/CD workflows.
- Delivered reusable, modular infrastructure components to accelerate project bootstrapping and reduce duplication across client engagements.
- Established DevOps best practices across the consultancy, authoring internal standards, technical documentation, and onboarding material to support knowledge sharing and consistency.
- Collaborated with cross-disciplinary teams to embed security, observability, and automation into the SDLC from the outset of each engagement.

technologies used: GCP, AWS, Node.js, Typescript, Golang, Python, Bash, Terraform

DevOps III (Senior) - Synchronoss Technologies **Dec 2018 - Feb 2022**

- Led the company-wide transformation of container orchestration infrastructure, migrating legacy Kubernetes clusters to Amazon EKS, fully managed through Infrastructure as Code using Terraform and Helm.
- Designed and implemented a decentralised, zero-trust OIDC authentication system in Go, reducing reliance on static secrets and providing a robust identity layer for internal service communication.
- Developed a custom Helm-to-Terraform converter, enabling consistent resource provisioning and reducing the complexity of managing hybrid infrastructure definitions.
- Built an automated resource lifecycle management framework, integrating provisioning, auditing, and decommissioning across the CI/CD pipeline.
- Championed the adoption of modern DevOps practices across engineering teams, introducing robust CI/CD pipelines, improving deployment frequency, and driving cultural and process alignment with site reliability engineering principles.
- Acted as a technical lead within the DevOps function, mentoring junior engineers, leading architecture reviews, and collaborating closely with development, QA, and security teams to deliver highly available, observable, and compliant systems.
- Played a key role in the company's broader cloud migration strategy, including cost optimisation initiatives, disaster recovery planning, and scaling critical workloads on AWS.

technologies used: AWS, Kubernetes, Docker, Terraform, Vault, Consul, Node.js, Golang, Bash

System Administrator - IPEC Ltd **Feb 2015 - Feb 2017**

- Administering cloud services while overseeing the longest period of uptime in the company's history.
- Performed the on-site installations for companies including UK Power Networks, Hong Kong Electricity, Companhia de Electriciadade de Macau, Saudi Electric Company and British Petrolium.
- Maintained condition monitoring systems in electrical substations around the world.
- Developed critical scripts and software for customer and in house solutions using Perl, Python, C etc..
- PostgreSQL database administration and design for scientific applications. Also helped with general office support for very demanding development teams.

technologies used: SSH, Apache, OpenVPN, Postfix, USB (libusb), PostgreSQL, Perl, PHP, C(99)

Previous Technical Roles **2008 - 2014**

- Red Hat Linux support, MySQL database administration, and full-stack LAMP development
- Web development, IT support, DevOps scripting (Perl, Bash, SQL, PHP)
- Worked in NHS high-security environments and international web hosting support teams
- Early contributions to automation, backup systems, and proxy server infrastructure

Also familiar with

GitHub Actions, ArgoCD, Jenkins, CircleCI Redis, MongoDB, DynamoDB, MySQL, MariaDB, Elasticsearch Nginx, HAProxy, Kong, FastAPI, Huma, ExpressJS RabbitMQ, SQS, Kafka