

PROFESSIONAL SUMMARY

Software Engineer with 6+ years of experience designing and delivering scalable, automated systems. Proven expertise in Python, Docker containerization, and high-impact CI/CD pipelines (GitHub Actions + Google Cloud Build) that reduced deployment times by 95%. Strong background in Linux systems administration through embedded and IoT projects, combined with cloud-native development on AWS and GCP. Passionate about open-source software, container technologies, and building secure, high-quality infrastructure that simplifies deployment for global users.

PROFESSIONAL EXPERIENCE

Freelance Software Developer, Australia | May 2024 – Present

- Architected and delivered cross-platform solutions with strong focus on automation, security (RBAC via Firebase), and scalable cloud databases (Cloud SQL PostgreSQL) to support growing user bases.
- Engineered full-stack booking platforms using modern frameworks, implementing automated workflows that improved operational efficiency by 90%.

Software Engineer, YellowZap, Dubai, UAE | September 2021 – February 2024

- Designed and maintained CI/CD pipelines using GitHub Actions, Google Cloud Build, and Docker, reducing deployment times by 95% and enabling reliable, frequent releases.
- Built and integrated containerized components with cloud functions (Node.js) and geo-location services, ensuring high performance and observability.
- Developed responsive, production-grade applications with automated testing (Jasmine/Jest) and server-side rendering, consistently delivering high Lighthouse scores and SEO performance.

Software Engineer, Orel IT, Colombo, Sri Lanka | September 2020 – September 2021

- Developed and published Flutter mobile applications integrated with AWS and Firebase, including real-time features, QR/barcode scanning, and geo-location services that reduced processing times by 80%.
- Built and maintained Angular-based web platforms and admin panels with robust backend integrations and delivery tracking capabilities.

Freelance Software Developer, Sri Lanka | November 2019 – September 2020

- Delivered multiple web and mobile applications using Angular, Flutter, and Ionic, integrating AWS and Firebase for data persistence and real-time monitoring of embedded systems.

Embedded Systems Engineer, Nikko Innovations, Sri Lanka | September 2018 – October 2019

- Developed embedded software for Raspberry Pi-based autonomous systems using Python, ROS, and OpenCV, running on Linux environments with real-time image processing.
- Integrated AWS IoT services with hardware devices to enable voice control via Amazon Alexa, demonstrating end-to-end Linux + cloud + Python delivery.
- Performed simulations and optimizations for mobile robotic platforms and sensor systems.

Electronics Engineer Intern, Orel Corporation, Colombo, Sri Lanka | February 2017 – February 2018

- Optimized IoT device software for power efficiency, fail-safe operation, and network security on Linux-based platforms.
- Developed simulation tools and integrated AWS services for voice-controlled features.

SKILLS

Programming Languages: Python, Go, JavaScript/TypeScript, C++, Embedded C

Container & DevOps: Docker, CI/CD (GitHub Actions, Google Cloud Build), Git

Cloud & Infrastructure: AWS, Google Cloud Platform (GCP), Firebase, Cloud SQL (PostgreSQL)

Frameworks & Tools: Angular, Flutter, Node.js, NestJS, ROS, OpenCV

Other: Linux Systems Administration, Agile methodologies, Unit Testing (Pytest, Jest, Jasmine), Documentation & Knowledge Sharing

PROJECTS

FedLibrary Dashboard Solution | Federation University, Australia | February 2025 – November 2025

- Built automated Python data pipeline integrating external APIs with MS SQL Server for real-time analytics.
- Designed Power BI dashboards that eliminated manual reporting processes.

EDUCATION

Master of Technology (Software Engineering)

Federation University, Australia | 2025

Bachelor of Engineering (Hons) – Mechatronics Engineering

University of Wolverhampton, UK | 2019

CERTIFICATIONS

- Cloud Architecture with Google Cloud Specialization
- Architecting with Google Compute Engine Specialization
- Introduction to Artificial Intelligence