

LUKE MOORHOUSE

Email: recruitluke.dev@gmail.com | *Portfolio:* www.lukedevhub.tech

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Professional Summary

Recent Computer Science graduate with over 10 years of leadership in Defence and 3 years of technical proficiency gained through studying software engineering, backend development, and data analysis. Proven success in microservices architecture, event-driven systems, and mission-critical software support. Seeking a backend/software engineering role to apply practical systems thinking and software design at scale. My ultimate aim is to progress in my chosen field until I meet all the necessary requirements to become a full-stack engineer.

Technical Skills

Languages: Java, Python, C++

Frameworks & Web: Spring Boot, Flask, React, Tailwind, Bootstrap, SCSS

Databases: Oracle SQL, MySQL, MongoDB, SQLite

Tools: Docker, Kafka, GitHub Actions, JIRA, CLion, IntelliJ, VSCode

Concepts: Microservices, REST APIs, CI/CD, Kafka Streams, Event-Driven Architecture

Professional Experience

Technical Business Analyst – Australian Army (Part-time) - Present

- Contributed to the development of a Defence-focused mental health app
- Conducted QA and user acceptance testing (UAT) to identify bugs and usability issues
- Liaised with stakeholders and the product manager to prioritise fixes and define next steps
- Helped devise an action plan for phased improvements and continued app development

Lead Data Manager (Maintenance Control) – Australian Army

- Managed CAMM2 system access and user authentication, including password resets and permissions
- Audited maintenance task records to ensure data accuracy, policy compliance, and airworthiness
- Reviewed and approved policy amendments before deployment to live aircraft platforms
- Acted as deployed technical lead responsible for system data integrity in remote operations
- Maintained operational readiness and safety through authoritative oversight of all fleet data

Aircraft Maintenance Engineer (B1.3C MAML) Supervisor – Australian Army

- Supervised mechanical teams maintaining MRH-90 and Black Hawk helicopters
- Executed diagnostics, inspections, and repairs under aviation regulatory frameworks
- Oversaw logbooks, safety procedures, and airworthiness directives for continued operation

Projects & Technical Experience

Jabberwocky Gym – Microservices Booking Platform

Java 21, Spring Boot, Kafka, Kafka Streams

Built a distributed gym management system using five RESTful microservices with Kafka-based event handling for bookings, notifications, and real-time analytics.

GitHub: <https://github.com/Luke-Arthur/318-Part-C>

GOAT – Smart Project Allocation System

Python, Flask, Bootstrap, HTMX, Docker

Developed a web platform that automates group-to-project matching for students at SIM, using constraint-based logic and role-specific dashboards.

Demo: <https://www.lukedevhub.tech>

WomensRightsNow – Emergency & Advocacy Web App

HTML, JavaScript, Bootstrap, OpenLayers

Designed a responsive multi-page app for women's rights education and simulated emergency alerts, featuring real-time geolocation tracking with OpenLayers.

GitHub: <https://github.com/Luke-Arthur/womens-rights-now>

Developer Portfolio – www.lukedevhub.tech

HTML, Bootstrap, JavaScript, GitHub Pages

Responsive personal portfolio showcasing project demos and code, with integrated contact form and GitHub repo links.

Live: <https://www.lukedevhub.tech>

Education & Certifications

- Bachelor – University of Wollongong (NSW, Australia): Computer Science
- Diplomas – CLET: WHS, Project Management, Quality Auditing, Business
- Cert IV – Defence RTO: Leadership & Management, Government; TAFE NSW: Aeroskills (Mechanical)

References

Available upon request.