Gayath Wethmin Kaluwahewa

COMPUTER SCIENCE GRADUATE

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PROFILE

Seeking graduate opportunities across software engineering, data engineering, DevOps and AI. Brings a broad technical skill set, with strengths in full-stack development, cloud infrastructure, data systems and collaborative software engineering.

INDUSTRY EXPERIENCE

Project Manager & Developer | IBM Industry Capstone

RMIT University and IBM | September 2026 to December 2026 | Project result: **86.9/100 (HD)**

- Led a five-person team building an AI-powered 2D RPG consulting simulation for junior and graduate consultants across three sprints.
- Served as the primary contact for IBM, managing client communication, expectations and project updates.
- Ran Scrum ceremonies, sprint planning and task prioritisation, and coordinated Git collaboration, code integration and delivery.
- Contributed to development alongside managing the project.
- Led the team at an industry showcase organised with IBM, Microsoft, Amazon, RMIT, Telstra, NBN and the Australian Grand Prix.

ADDITIONAL EXPERIENCE

Customer Support & Showroom | Cedar Hospitality | Part-time | April 2025 to Present
Assist customers with product enquiries and provide support in the showroom.

Student Mentor | RMIT University, Melbourne | Volunteer | July 2025 to Present
Support students as they work through course materials and academic questions.

PROJECTS

Consultancy 101 (IBM Capstone) | AI-powered 2D RPG simulation that trains junior and graduate consultants.
Next.js, TypeScript, Phaser, Tailwind CSS, Firebase, Groq, Vercel, Vitest

- Built a browser-based consulting simulation with Next.js and Phaser, with AI-driven scenarios powered by the Groq LLM API.
- Set up Firebase Authentication and Firestore for accounts and game data, plus the demo repo and Vercel showcase deployment.
- Tested with Vitest, with CI checks on every push through GitHub Actions.

Parsify | Schema-driven document extraction app that returns any user-defined fields as structured JSON.
React, TypeScript, FastAPI, PostgreSQL, Claude API, Docker, AWS (EC2, S3, RDS), GitHub Actions

- Built end to end: the FastAPI backend pulls uploads from S3, builds a prompt from the chosen schema and uses Claude to extract and validate fields, scoring and storing each result in PostgreSQL.
- Secured with JWT authentication, bcrypt hashing, per-user data isolation and private S3 storage through presigned URLs.
- Deployed on AWS with a multi-stage Docker build behind Nginx; 25 backend tests plus frontend tests run on every push.

Smart Inventory | Warehouse platform for hospitality suppliers, covering stock, deliveries and stockout prediction.
FastAPI, PostgreSQL, Redis, Celery, XGBoost, scikit-learn, React, TypeScript, Docker, Kubernetes

- Predicted stockout dates and reorder quantities with XGBoost, and flagged unusual stock movements with Isolation Forest.
- Built a layered FastAPI backend with role-based access for admins, warehouse staff and drivers, where completed deliveries update stock.
- Cached forecasts in Redis and offloaded ML work to Celery; 60 automated tests in CI, with Kubernetes manifests tested on minikube.

Forge | Self-hosted LLM gateway with an OpenAI-compatible API, API key management, rate limiting, prompt risk checks and usage tracking.
Python, FastAPI, Redis, PostgreSQL, Ollama, Docker

Clickstream Pipeline | Real-time streaming pipeline that transforms simulated web traffic into live analytics and dashboard metrics.
Kafka, Python, PostgreSQL, FastAPI, React

Retail Analytics Pipeline | Batch ELT pipeline integrating multiple source systems into a tested analytics warehouse, with scheduled orchestration.
dbt, Airflow, PostgreSQL, FastAPI, React

LoanFlow | Loan application backend modelled on Australian banking workflows, with orchestrated approvals and role-based access.
Java, Spring Boot, Camunda, PostgreSQL, Flyway

Music Subscription App | University group project deploying one Java backend on EC2, Docker on ECS, and Lambda behind API Gateway to compare AWS compute options.
Java, AWS (EC2, ECS, Lambda, API Gateway, DynamoDB, S3), Docker

EDUCATION

Bachelor of Computer Science, Advanced Computer Science major | RMIT University, Melbourne
March 2024 to November 2026

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, TypeScript, Go, SQL
Frameworks: React, Next.js, FastAPI, Spring Boot, Tailwind CSS, Phaser
Data & AI: Pandas, NumPy, scikit-learn, PyTorch, XGBoost, dbt, Airflow, Kafka, LLM APIs (Claude, Groq)
Cloud, DevOps & Tools: AWS, Docker, Kubernetes, Terraform, Firebase, Vercel, GitHub Actions, Git, PostgreSQL, Redis, Celery

More project details and code: gayath.dev/projects | github.com/AEX8