

Darcy Geyer

darcylgeyer@gmail.com | [Portfolio](#) | [GitHub](#) | [LinkedIn](#) | Adelaide, Australia

Full-stack software engineer with consulting and startup experience delivering production-grade systems, APIs, and tooling. Strengths in systems programming, modern web stacks, and end-to-end ownership from architecture to deployment; active in university CS communities through mentoring, study cohorts, and competitive programming events.

EDUCATION

Bachelor of Computer Science – Major in Artificial Intelligence Feb. 2022 – Dec. 2024
The University of Adelaide

- Relevant Coursework:** Algorithms & Data Structures, Web & Database Computing, Computer Systems.

EXPERIENCE

AI & Automations Engineer Jun. 2025 – Aug. 2025
Olivia Jenkins Consulting

- Engineered Stripe- and CRM-based service workflows with n8n, real-time alerting, and automated remediation, eliminating manual monitoring windows and ensuring zero dropped client handoffs.
- Built API integrations across Notion, Google Workspace, and Looker Studio to consolidate operational metrics, shrinking reporting cycles from multi-hour spreadsheets to sub-10-minute refreshes.
- Deployed production dashboards with validation tooling that reduced data quality issues by 95% and enabled executives to self-serve performance insights.

Software Engineer Intern Jul. 2024 – Oct. 2024
Edgible Pty Ltd

- Developed FastAPI microservices with Docker Compose orchestration, providing unified endpoints that connected Ollama, GitHub, and internal data sources for founders.
- Implemented REST APIs with request validation, Postman test suites, and CI-ready containers, cutting integration defects by 60%.

Software Engineer Feb. 2024 – Jun. 2024
GuardianEyes - Security Camera System

- Delivered a Node.js web application that ingested hospital security video/audio streams, applied event filtering, and exposed real-time dashboards for clinical staff.
- Implemented JWT-based authentication and access controls to safeguard clinical data during pilot deployments.
- Collaborated with a cross-functional team to scope requirements, present demos, and earn a 2nd-place finish in the ThincLab Tech eChallenge.

PROJECTS

Concurrent Task Scheduler (C++23) Nov. 2025

- Built a dependency-free thread-pool scheduler using `std::jthread`, atomic flags, and condition variables to distribute arbitrary workloads safely across CPU cores.
- Implemented a template-based submission API with perfect forwarding plus graceful shutdown semantics, illustrating modern synchronization best practices.

ApiHub – Full-Stack Demo (Spring Boot + React) Aug. 2025 – Sep. 2025

- Created an API aggregation platform with Spring Boot 3.5 (Java 17), WebClient, and JPA/H2 to normalize crypto, weather, and jokes APIs behind validated REST endpoints.
- Developed a responsive React 19 + TypeScript front end with Tailwind CSS, real-time updates, and secure HTTP Basic flows to showcase integration scenarios.

ClarityLog – AI-Powered Journaling Platform Feb. 2025 – Aug. 2025

- Architected a React/Vite + Node.js platform with autosave, Markdown editing, and JWT auth backed by Supabase PostgreSQL using RLS, encrypted columns, and JSONB indices.
- Implemented async processing pipelines that batch entries through OpenAI API workloads, cache embeddings, and expose REST endpoints for entry analyses while keeping inference costs <\$0.05 per session.
- Tuned PostgreSQL full-text search and real-time filtering, monitoring Supabase metrics to maintain sub-second query latency across thousands of entries and >99.5% beta-user uptime.

TECHNICAL SKILLS

Languages	Python, C++, Java, JavaScript/TypeScript, C
Web / Services	React, Node.js, FastAPI, Spring Boot, Vite, JWT
Systems / Tools	Git, Docker, CI/CD, Postman, Stripe, n8n
Cloud / Databases	PostgreSQL, MySQL, Supabase, Google Cloud Platform