

Darcy Geyer

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Software engineer (BCompSci, Univ. of Adelaide) passionate about systems programming, full-stack development, and building robust, efficient software. Experience delivering production systems in consulting and startup environments, with personal projects spanning modern C++ systems development and full-stack platforms built end-to-end.

EDUCATION

Bachelor of Computer Science (Major in Artificial Intelligence)

The University of Adelaide

EXPERIENCE

AI & Automations Engineer

Jun. 2025 - Aug. 2025

Olivia Jenkins Consulting

- o Led systems development, designing and implementing scalable solutions that streamlined operations and enhanced client experiences.
- o Designed and deployed production-grade workflows using Stripe and n8n, implementing real-time alerts, retry logic, and escalation systems that eliminated manual monitoring.
- o Built multiple analysis pipelines with OpenAI & Notion, replacing hours of manual work per task with processes costing ~\$0.04 each, enabling structured performance insights.
- o Built business intelligence dashboards in Looker Studio & Google Sheets, automating multi-hour reporting into minutes with data validation and cleanup scripts.

Software Engineer Intern

Jul. 2024 - Oct. 2024

Edgible Pty Ltd

- o Built tool-injection framework enabling LLMs to call external APIs with FastAPI & Ollama.
- o Automated enrichment pipelines via n8n & Google Sheets, reducing manual retrieval time by ~60%.
- o Dockerized services and managed deployments with Docker Compose.
- o Designed and tested REST APIs using Postman; collaborated with founders in a startup environment.

Software Engineer

Feb. 2024 - Jun. 2024

GuardianEyes - Security Camera System

- o Built real-time web application using Node.js for processing video feeds, extracting audio from streams, and integrating third-party APIs.
- o Implemented real-time processing and authentication features for healthcare deployment use cases.
- o Secured 2nd place in ThincLab Tech eChallenge through research, design, and pitching.

PROJECTS

Concurrent Task Scheduler (C++23)

Nov. 2025

- o Built modern C++23 thread-pool scheduler with thread-safe task queue using `std::mutex` and `std::condition_variable`, leveraging `std::jthread` for RAII-based resource management.
- o Designed template-based API with perfect forwarding and implemented graceful shutdown with atomic flags, demonstrating synchronization and concurrent design best practices.

ClarityLog - AI-Enhanced Journaling Platform

Feb. 2025 - Aug. 2025

React, Vite, PostgreSQL, Supabase, Ollama, Node.js

- o Built full-stack journaling app with autosave, Markdown, JWT auth, and PostgreSQL full-text search.
- o Designed and implemented multi-prompt LLM pipeline, optimising system throughput by ~40% and reducing formatting errors >99%.
- o Built scalable database schema with encrypted storage, row-level security, and minimal external data exposure.

SKILLS

Programming Languages

C++, C, Python, JavaScript/TypeScript, Java

Frameworks / Libraries

React, Node.js, FastAPI, Spring Boot, Vite

Tools & DevOps

Git, Docker, Postman, n8n, JWT, CI/CD

Cloud / Databases

PostgreSQL, MySQL, Supabase, Google Cloud Platform