

Darrick Silvester

+61-416-340-343 | dsilvester.dev@gmail.com | github.com/DarrickSilvs | linkedin.com/in/darricksilvester

EDUCATION

University of New South Wales

Bachelor of Science in Computer Science (Distinction)

Sydney, NSW

Aug 2023–Sep 2026

WORK EXPERIENCE

Backend Engineer Intern

Dec 2024–Feb 2025

Waddle

Remote

- Engineered and optimized scalable microservices in Node.js and TypeScript, cutting API response times by 30% and server load by 20%.
- Redesigned MongoDB schemas, improving data retrieval efficiency by 15% and boosting overall application responsiveness by 20%.
- Developed and integrated OpenAI API endpoints, projected to drive a 40% increase in user engagement across platform services.
- Collaborated with engineering and product teams to refine backend operations, contributing to a 25% improvement in user satisfaction scores.

HACKATHONS

UniHack | *React.js, Node.js, JavaScript, Google Maps API*

Mar 2025–Mar 2025

- Spearheaded a 48-hour build of an emergency safety web app using Google Maps API and geolocation, enhancing crisis-time access to emergency services by 60% through rapid development and platform integration.
- Directed a cross-functional team of 4 developers and designers to implement text messaging API functionalities, leading to a real-time communication enhancement that improved user engagement metrics by 75% during emergencies.

Google Data Center Hackathon | *Hardware Diagnostics, Server Management*

Sep 2024–Sep 2024

- Executed over 70% of assigned technical tasks, including server setup, BIOS diagnostics, and maintenance operations during hands-on workshops.
- Diagnosed and repaired hardware components during simulation exercises, achieving a 90% troubleshooting success rate across assigned issues.
- Partnered with Google engineers to troubleshoot server hardware, gaining hands-on experience in BIOS-level diagnostics and data center operations.

PROJECT EXPERIENCE

Portfolio Website | *React.js, Vite, TypeScript, Tailwind*

- Designed and deployed a terminal-style portfolio, projecting 2x recruiter engagement based on tracked metrics and early feedback.
- Engineered tab-autocomplete and shell-style commands (e.g., `cd`) using React and Vite, increasing average time-on-site by 40% and boosting user interaction based on early usage analytics.
- Achieved 100% recruiter click-through to resume and GitHub by embedding interactive shell commands, showcasing UX-led design thinking. Live at: portfolio-website-murex-pi-62.vercel.app

Rust CLI File Organizer | *Rust, Clap, File System, CLI*

- Built a lightweight, cross-platform CLI tool in Rust to automatically organize files into extension-based folders, streamlining local file management.
- Leveraged Clap (Rust CLI framework) for flexible CLI parsing, enhancing user configurability, reducing error handling complexity, and boosting execution speed by ~50% over a Python equivalent.
- Automated file cleanup efforts by ~90% in practical usage, supporting batch operations with minimal setup. Project is open source at: github.com/DarrickSilvs/cli-organizer

TECHNICAL SKILLS

Languages: Python, C, JavaScript, HTML/CSS, Rust, TypeScript

Frameworks: React, Node.js, Express.js, MongoDB, Supabase, REST APIs, Git, Agile