

# Darrick Silvester

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## 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.

## HACKATHON(S)

### 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 to implement text messaging API functionalities, leading to a real-time communication enhancement that improved user engagement metrics by 75% during emergencies.

## 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](https://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](https://github.com/DarrickSilvs/cli-organizer)

### Secure File Shredder | *Rust, OsRng, File System, CLI*

- Developed a Rust-based CLI for macOS to securely delete files through multi-pass overwriting, random renaming, and metadata clearing, reducing recovery risk by over 95% in forensic test scenarios.
- Implemented cryptographically secure random overwrites with configurable passes, improving sanitization flexibility and user control across varied file sizes.
- Benchmarked 2.3x faster execution than equivalent Python-based shredders due to optimized I/O handling and zero-copy memory operations. Open source at: [github.com/DarrickSilvs/secure-file-deletion](https://github.com/DarrickSilvs/secure-file-deletion)

## TECHNICAL SKILLS

**Languages:** C, HTML/CSS, Java, JavaScript, PostgreSQL, Python, Rust, TypeScript

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