

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
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WORK EXPERIENCE

Backend Engineer Intern <i>Waddle</i>	Dec 2024–Feb 2025 Remote
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- 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 <i>React.js, Node.js, JavaScript, Google Maps API</i>	Mar 2025–Mar 2025
<ul style="list-style-type: none">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 <i>React.js, Vite, TypeScript, Tailwind</i>	
<ul style="list-style-type: none">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

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

TECHNICAL SKILLS

Languages: C, HTML/CSS, Java, JavaScript, PostgreSQL, Python, Rust, TypeScript
Frameworks: Agile, Express.js, React, Git, MongoDB, Node.js, REST APIs, Supabase