

Eric Liao

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EDUCATION

University of New South Wales	Sydney, NSW
<i>Bachelor of Computer Science: WAM: 80 / 100 (Distinction)</i>	<i>Feb 2022 – Dec 2025</i>
<ul style="list-style-type: none">• Web Front-End Programming - React, Cypress, Jest: 88• User Interface Design & Construction: usability testing, Figma prototyping, React Native: 89• Software Engineering Fundamentals - NodeJS, Express, SQLite: 99	

EXPERIENCE

Software Engineer – Frontend Intern	Dec 2025 – Present
<i>Freelancer.com</i>	<i>Sydney, NSW</i>
<ul style="list-style-type: none">• Developed and maintained web and cross-platform Angular applications while leading framework and library migrations (i.e. Angular 18 to 19, RxJS to Angular Signals, Protractor to Playwright for E2E testing)• Working with Figma designs to contribute to custom component library for brand consistency using TailwindCSS• Contributed to internal tools, including Jenkins CI/CD pipelines, automated alerts and data visualisation systems• Performed Lighthouse audits and performance testing on pages with company custom state management systems	
Software Developer - AI Trainer	Feb 2024 – Nov 2025
<i>DataAnnotation</i>	<i>Remote</i>
<ul style="list-style-type: none">• Fine-tuning LLMs to generate by testing, correcting and improving output for accuracy and performance• Reviewed and corrected 500+ AI-generated code responses in React, JavaScript / TypeScript, Python, Java, Go, Rust, and SQL to fix bugs, improve readability, and use modern syntax and up-to-date libraries	
Assistant Manager	Feb 2020 – Jan 2022
<i>All Luggage Solutions</i>	<i>Brisbane, QLD</i>
<ul style="list-style-type: none">• Automated manual entry of customer shipping information to reduce packaging times by 25% with JavaScript• Increased product visibility on Amazon/eBay by optimizing listings for SEO to drive sales and boost engagement	

PROJECTS

RiceLang Playground React, Java, Spring Boot, Wasm	Feb 2025 – Present
<ul style="list-style-type: none">• Built a compiler for a custom language, RiceLang, a C/Java-like language that compiles to JVM bytecode• Created a Next.js frontend using Shadcn to handle syntax highlighting, and visualization of AST and output• Deployed a Spring Boot backend with routes for compilation and execution for clients without WasmGC support• Integrated a WASM JavaScript transpiler achieving an average 95%+ performance improvement over the backend	
Squaregg10 game PostgreSQL, Rust, Elixir, Bevy, Phoenix	June 2024 – Present
<ul style="list-style-type: none">• Developed a WASM-compiled game using Bevy engine and deployed online with PostgreSQL leaderboard• Implemented real-time chat using Elixir to take advantage of lightweight websockets on Erlang VM (BEAM)	
Personal Blog Astro, libSQL, DrizzleORM, TailwindCSS	Oct 2024 – Nov 2024
<ul style="list-style-type: none">• Achieved a 99+ Lighthouse score through static site generation with Astro to build a fast and responsive blog• Integrated AstroDB with DrizzleORM to handle likes, and comments efficiently with optimistic updates	
Recursive DNS Resolver Python, React, JavaScript, Docker	May 2023 – Jan 2024
<ul style="list-style-type: none">• Developed an RFC-1035 compliant DNS resolver handling 500+ queries per second with multithreading• Created an Express-based backend and React frontend with daisyUI with an intuitive interface with options for using Cloudflare, Google and Quad9 as substitute resolvers and dig as an alternative query builder	
Personal Links Vue, JavaScript	Jan 2023 – Aug 2023
<ul style="list-style-type: none">• Built a personalized site to display relevant links on a single landing page• Animated custom transitions and effects with native JavaScript and CSS to optimize performance	

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, C, Rust, Elixir, Bash, SQL, HTML/CSS
Frameworks / Libraries: React, Astro, Vue, TailwindCSS, Express, Flask, Springboot
Databases: PostgreSQL, SQLite, libSQL, MongoDB
Developer Tools: Git, Github Actions, Gitlab CI/CD, Docker, Render, Fly.io