

Nathan Isaiah

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EDUCATION

Bachelor Of Advanced Computer Science (Minor in Mathematics)

University Of New South Wales

Sydney, NSW

Nov. 2024 – Sept. 2028

International A-Levels

Cordoba Institute – Computer Science - A*, Mathematics - A*, Statistics - A*, Physics - A

Dubai, UAE

Sep. 2022 – June 2024

EXPERIENCE

Software Engineer

UNSW Redback Racing (Formula SAE)

April 2025 – Present

Sydney, Australia

- Develop and maintain a proprietary telemetry platform, built with Next.js and supported by a cloud-native AWS backend (ECS, Lambda, Docker), enabling real-time and post-session analysis of vehicle data
- Rewrote the telemetry data transmission pipeline in Rust, replacing the microservice architecture with a monolith to reduce latency overhead, improve reliability, and lower cloud infrastructure costs by 70%
- Built a browser-based GUI for our custom, in-house Battery Management System, leveraging the Chrome Web Serial API to enable direct wired communication alongside existing wireless telemetry infrastructure
- Led a department operations restructure, shifting focus toward vehicle dynamics workflows, resulting in improved analytical impact and cross-department relevance
- Represented UNSW Engineering as an ambassador, leading workshops and outreach for students across NSW

Software Engineer

Sideway

August 2025 – Present

Sydney, Australia

- Built AI and data systems to automate business insights, reporting, and internal workflows
- Built a LinkedIn network intelligence platform for warm introductions, training an XGBoost model on historical labelled connection data to classify relationship strength and improve recommendation quality
- Developed data ingestion pipelines using extensions, headless browser automation, and external APIs (Xero, Linear), cleaning and structuring data for analytics and ML workflows

Web Developer

LA Digital

July 2022 – November 2024

Dubai, UAE

- Developed bespoke, content-driven web applications using Microsoft's .NET Framework and Umbraco CMS
- Led full development cycles across half a dozen projects, from ideation to deployment and post-launch optimization
- Built a custom CRM for a real estate firm, used to manage over 750 Million USD in property sales
- Worked across the UI stack, from Figma design to delightful yet performant animation with GSAP
- Delivered software for clients including *The Gates Foundation*, *Riot Games*, and *Government of Dubai*

Coding Instructor

Abiliti: Code Smarter

July 2021 – May 2022

Dubai, UAE

- Taught children to code via game development in Scratch and Unity, curating course material and video content
- Organized hackathons and gaming events to foster student participation and boost engagement amongst students

PROJECTS

vet0 | TypeScript, Next.js, Convex

January 2026 – Present

- Real-time map pick/ban platform for VALORANT tournaments, replacing slow manual admin workflows

PantryPal | TypeScript, React

December 2024

- AI meal planning app focused on reducing student food waste. *Groq* award for best use of their Generative AI API

TECHNICAL SKILLS

Languages: Python, Typescript, Javascript, Rust, SQL, C#, C, C++, HTML/CSS

Frameworks: React, .NET, GSAP, Tailwind, Entity Framework

Developer Tools: Git, Docker, Azure DevOps, AWS, Vercel

Certifications: Advanced Learning Algorithms, Supervised Machine Learning