

# SIMON NGUYEN

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## PROFILE

Motivated Computer Science student majoring in Artificial Intelligence and Cybersecurity, seeking internships or entry-level opportunities to apply academic knowledge, gain hands-on experience, and contribute to projects in the field. Beyond my coursework and university projects, I have gained professional experience through two industry roles as a Full-Stack Developer at Unibuz Pty Ltd, I built a modern social media platform for university students, and as an Intern Developer at Tomson Pte. Ltd (Ballarat Gold Mine), where I contributed to the development of a Management Information System (MIS). These experiences have strengthened my full-stack development, problem-solving, and collaboration skills. I am eager to bring my technical expertise and analytical mindset to a forward-thinking team, where I can contribute to innovative software solutions and robust system architectures.

## WORK EXPERIENCE

### Social Media Platform Development - Full Stack Developer (Part Time)

**Unibuz Pty Ltd.**

**Feb 2025 to Present**

- Developing UniBuz, a social platform for university students, using modern full-stack technologies including React/TypeScript (web), React Native/Expo (mobile), and Supabase (backend).
- Built scalable web and mobile applications with Vite and Expo following feature-based architecture.
- Implemented backend services with Supabase (PostgreSQL + Edge Functions) for authentication and real-time data synchronization.
- Integrated AWS SES for email notifications and Firebase Cloud Messaging for push notifications.
- Collaborated with a team of two developers and one designer to gather requirements and deliver iterative improvements.

### ProofVault.Tech – Lead Developer (Apprenticeship)

**Aqius Enterprises Atlantis Pty Ltd.**

**Feb 2025 to Nov 2025**

- Architected a secure, multi-device audio logging system using a modern full-stack suite including Next.js (web), Expo/React Native (mobile), and Fastify (backend).
- Engineered a high-performance, type-safe infrastructure using tRPC and Bun, featuring a custom Redis-based transport layer to handle concurrent service communication.
- Implemented robust data security protocols with server-side RSA encryption for audio files stored in MinIO, utilizing PostgreSQL with pgvector for metadata and vector search.
- Integrated Whisper AI and machine learning models to facilitate automated audio transcription and real-time threat detection analysis.
- Coordinated development tasks for a team of six, facilitating code reviews and ensuring alignment on system architecture.

### Management Information System Development (Internship)

**Tomson Pte. Ltd (Ballarat Gold Mine)****Mar 2024 to Dec 2024**

- Planned and developed a Management Information System (MIS) using NextJS for the front-end, tRPC for the back-end, and PostgreSQL for the database.
- Created a responsive and user-friendly interface to streamline data entry and retrieval processes.
- Ensured robust API integration and seamless data flow between application layers.
- Collaborated with cross-functional teams to gather requirements and enhance operational efficiency.

**KEY SKILLS**

- Languages: Javascript, Typescript, Python
- Web Frameworks: React.js, Next.js, Tanstack Start.
- Mobile Frameworks: Expo React Native.
- Cloud Services: AWS, Vercel, Railway.
- Backend: FastAPI, Convex, Supabase, Express.js.
- Database: SQL (PostgreSQL, MySQL), NoSQL (MongoDB).
- AI Integration: OpenAI, Anthropic, OpenRouter.
- Others: Version Control System (Git), Docker, Push Notifications, Kubernetes, Event-driven Architecture.

**EDUCATION & QUALIFICATIONS****Swinburne University of Technology****Feb 2023 to Nov 2025****ADDITIONAL INFORMATION**

- Completed the Responsive Web Design Certification by freeCodeCamp, covering over 300 hours of hands-on projects in modern HTML5 and CSS3. Gained practical experience in building accessible, mobile-first web interfaces using Flexbox, Grid, and responsive design principles. Developed multiple portfolio-ready projects, including landing pages and dynamic layouts, demonstrating strong understanding of semantic markup and cross-device compatibility.
- [Botanic Nail Bar](#) - An end-to-end management system for Botanic Nail Bar Using React (Next.js) and Convex.
- [Budget Buddy](#) - A budget management application built with T3 Stack (tRPC, NextJS, NextAuth)
- [Meeting Journal App](#) - A collaborative meeting notes application built with real-time synchronization capabilities. Take notes, manage attendees, and collaborate seamlessly during meetings with live document editing.