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Experience

Software Engineer

Sensand, Melbourne (Dec 2024 – September 2025)

- Worked with **Mapbox Api** and **Mapbox React Client** to build and maintain **map** related features in the platform.
- Designed and implemented a **robust data pipeline** to ingest, parse and normalize carbon registry data from multiple sources (e.g. Verra, Gold Standard, ACCU) in **Sensand's Carbon Trading platform**.
- Built a modular **activity logging** and **commenting system**, to record and monitor actions across the Land Management platform.
- Helped maintain the primary **Authentication** and **Authorization** flow in the platform using third party providers such as **Auth0** and **Permit IO**.
- Built and maintained primary **REST APIs** of the platform.
- Refactored core **UI components** and supported the migration to a modernized interface for improved user experience.

Software Engineer

Outback Yak, Melbourne (Contract - Present)

- Developed an **AI-powered RAG (Retrieval-Augmented Generation)** chat system for Hai Helper, enabling intelligent question answering and document processing capabilities using OpenAI APIs and vector embeddings using **LangChain** and **LangGraph**.
- Deployed the entire Hai Helper application on AWS using **CDK** with multi environment setup (staging and production), implementing infrastructure as code for scalable and maintainable deployments.
- Built a **custom website** and **admin panel** for Snevic, a non-profit organization using **NextJs** and **Payload CMS**, enabling dynamic page creation, blog/event management, and membership registration for users.

Full Stack Web Developer

Learn Tech, Nepal (March 2022 – February 2023)

- Built **REST APIs** and **Frontend** of the company's core web application, contributing across critical modules including, inventory and billing as well as database design in a **startup environment**.
- Collaborated closely with a small team to establish coding standards, deployment practices, and project documentation from the ground up.
- Refactored most of the UI modules into **Blazor** for improved developer maintainability.
- Wrote efficient **stored procedures** working with **Dapper**, **MSSQL** and **.Net Core**.

Education

RMIT University

Master of Business Information Technology

March 2024 – Dec 2025

London Metropolitan University

BSc (Hons) Computing

September 2019 – October 2022

Skills & Technologies

Languages: TypeScript, C#, SQL, BASH, HTML, CSS, JavaScript

Frameworks: NestJS, NextJS, React, ASP.NET Core, ExpressJS, Astro, LangChain, LangGraph

Databases: PostgreSQL, SQLite, Microsoft SQL Server, MongoDB, Supabase

Technologies: Dev Container, Docker, CI/CD, Single Page Application, Server-Side Rendering, PostHog, Datadog, Sentry, Mapbox, Drizzle, Kysely, Prisma, Dapper, Ts-Rest, REST API, Swagger Docs, NodeJS, Tailwind CSS

Cloud: AWS, S3 bucket, AWS CDK, Cloudflare worker, GitHub, Digital Ocean

AI Technologies: OpenAI APIs, LangChain, LangGraph, RAG (Retrieval-Augmented Generation), Document Chunking, Vector Embeddings, Semantic Search