

Overview

I am a **Computer Science graduate** specialised in **Artificial Intelligence** and **Visual & Interactive Computing**. Experienced in **programming, data analysis, and full-stack development**.

I have **led cross-functional teams** on AI and web development projects, creating impactful **AI-driven solutions** for real-world problems.

Tools & Languages

- HTML, CSS, Tailwind CSS, Bootstrap
- Node.js, Express, Flask, SQL
- Python, NumPy, Pandas, PyTorch
- React, Next.js, Angular, TypeScript
- Java, C, C++, MATLAB, Android
- TensorFlow, Keras

Projects

Mar - Jun, 2024 **Footy AI** Next.js, MUI, NumPy

Football Match
AI Predictor

[Repo](#) [Live Demo](#)

- Designed and implemented a **streamlined prediction model** using key match characteristics to **accurately forecast** UEFA Euro outcomes
- Created a **dynamic user interface** with MUI, featuring **multilingual support** and complete statistics for Euro tournaments, presented through **interactive graphs and tables**
- Implemented routing-based localisation and access to Euro tournaments, enabling **server-rendering** with Next.js for a **fast user experience** without client-side compiling

Jan - Mar, 2024 **ChharmCooks** React.js, Express, PostgreSQL, Firebase, Auth0

Dynamic Recipe
Sharing Platform

[Repo](#) [Live Demo](#)

- Developed a platform for users to **create, discover, and explore** Hokkien recipes, featuring **user-generated content** and **community engagement**
- Built a back-end with Express for **efficient data management** and **CRUD operations**, ensuring **data integrity** and **scalability** through a **structured schema** in PostgreSQL
- Implemented **authentication** with Auth0 to secure recipe management, and enhance user engagement through **comment sections** and **notifications** for user activity
- Optimised user experience with **multi-language support, responsive design**, and intuitive UI features like **filtering recipes** and **adjusting serving sizes**

May - Aug, 2022 **Memory Lane** Android Studio, Java, Firebase

Reminiscence
Therapy Android App

[Repo](#)

- Led a team** of 4 to develop an Android app for **reminiscence therapy**, enhancing **cognitive function** for dementia patients
- Designed **database structure** and integrated **Google Cloud TTS** for **dynamic content storage** and **accessibility**
- Implemented **multi-language support** with **Chinese transliteration**, expanding app **accessibility**

Education

2020 - 2024 **Simon Fraser University**

Bachelor of Science, Major Computing Science

Specialisations:

- Artificial Intelligence
- Visual and Interactive Computing

Relevant Courses:

- Software Engineering
- Machine Learning
- Server-side Dev
- Biomedical Computing
- Database Systems
- Client-side Dev
- Advanced Methods in NLP
- Computer Vision
- UI Design
- Computational Photography