

Franco Ou

Mobile: 0415824145 | Email: franco52048@gamil.com | LinkedIn: <https://www.linkedin.com/in/franco-ou-408b6a1ba>
Website: francoou.com

Skills

Front-End Skills:	React.js, Next.js, TypeScript, HTML/CSS
Back-End Skills:	Node.js, Express.js, Java, Spring Boot, Redis, MongoDB, MySQL
Version Control & CI/CD:	Git, GitHub, Heroku, Vercel
Cloud Computing:	Google Cloud Platform, Docker, Kubernetes
Methodologies:	Agile (Scrum), SDLC
Soft Skills:	Problem-solving, Time Management, Teamwork, Adaptability

Work Experience

Kepple | Collingwood, Victoria

July 2023 - November 2023

Full Stack Developer Intern

- Built an internal Admin website leveraging **React.js** with **TypeScript**, leveraging **MUI (Material-UI)** as UI library, **Google Firebase** as the backend for efficient data storage and retrieval.
- Worked in a **cross-functional Agile team**, collaborating with UI/UX designers and product managers to translate **Figma designs** into responsive and user-friendly interfaces.
- Redesigned database (**Firestore**) structure to accommodate new features and refactored parts of the legacy system for better performance and scalability.
- Ensured seamless integration of new tool into existing system by collaborating closely with development team, supporting ongoing system maintenance and enhancing overall operational efficiency.
- Gained valuable hands-on experience in **full stack web development**, utilised **Git** for version control, and practised **Agile** development methodologies for efficient project execution.

Monash University | Clayton, Victoria

July 2022 - September 2022

Research Assistant

- Contributed to the development of an open-source framework for **Python static code analysis**, focusing on **compatibility testing** and enhancing the tool's robustness.
- Collaborated with a team of developers to identify, document, and fix issues within the framework using **Python**.
- Designed and implemented **automated testing scripts** to ensure the compatibility of the framework across various Python versions.
- Gained experience in **Python**-based development, version control using **Git**, and open-source contribution methodologies.

Projects

Blog Web Application | Back End Development

September 2024 - October 2024

- Developed a **RESTful API** using **Spring Boot** to handle all backend functionalities, ensuring scalable and secure performance.
- Handled user authentication and authorisation using **JWT tokens** with **Spring Security** for secure login and role-based access control.
- Leveraged **MyBatisPlus** for database management with **MySQL**, providing efficient data handling.
- Implemented **Redis** for caching frequently accessed data, reducing latency and improving response times for blog posts and user requests.
- Utilised **Google Cloud Storage** for image uploading and storage for managing multimedia content..
- Created comprehensive API documentation using **Swagger2**, allowing for easy testing, integration, and collaboration with front-end developers and future teams.

Language Assessment Standard Setting Platform | Full Stack Development

February 2024 - June 2024

(In partnership with the School of Languages and Linguistics at the University of Melbourne)

- Developed an online platform facilitating panellists' training in standard language proficiency setting process within a diverse team environment.
- Led implementation of a dynamic and responsive user interface to enhance system performance and user experience utilising **React.js**, **Next.js**, **TailwindCSS** and **shadcnUI**.
- Engineered backend architecture with **Node.js**, **Express.js**, and **MongoDB**, ensuring efficient data management, API integration and designed secure authentication with **JWT**.
- Applied **Agile** methodologies to manage project development process, ensuring timely feature delivery, enhanced team collaboration, and adaptive planning.
- Leveraged **GitHub** for source control and **Jira** for project management, ensuring seamless collaboration and an efficient workflow.
- Deployed system on **Heroku**, ensuring reliable and scalable hosting for seamless user access.

Real-Time Chat Web Application | Full Stack Development

December 2023 - January 2024

- Developed a real-time chat application utilising **Next.js** framework and **shadcnUI** for dynamic UI components with integration of **LiveKit** for seamless voice and video calls.
- Designed and implemented **RESTful API** for chat server management, channel creation, and user management and real-time messaging (using **Socket.io**).

Education

The University of Melbourne

Parkville, Victoria

Master of Information Technology *March 2023 - July 2024*

- Courses: Machine Learning, Natural Language Processing, Declarative Programming, Distributed Systems, Database Management, Cluster and Cloud Computing

Monash University

Clayton, Victoria

Bachelor of Information Technology *March 2020 - November 2022*

- Courses: Computer Systems, Network and Security, Operating Systems, Software Architecture and Object Oriented Design and Implementation, Data Structures and Algorithms in Python, Mobile Application Development, IT Project Management