

# Patrick (Yuzhuo) Ma

+61 450890816 | Email: yuzhuo.ma816@gmail.com | LinkedIn URL: [Patrick LinkedIn](#) | Github: [Patrick Github](#)

## Software Engineering & DevOps Engineering

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Graduate Software Engineer with strong Computer Science fundamentals and hands-on experience in full SDLC, Agile development, automated testing, and cross-platform SaaS deployment. Adaptable and curious learner with a passion for delivering secure, customer-facing applications in real-world environments. Eager to grow through mentoring and cross-functional rotations.

*\* Permanently settled in Australia with full and unrestricted work rights.*

## Education

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**Master of Information Technology(Distributed System)**      University of Melbourne (2023.02 – 2024.06)

GPA: 3.3 / 4

**Bachelor of Software Engineering(Honours)**      Monash University (2020.02 – 2022.11)

GPA: 3.2 / 4

IT Department Lead in Monash Student Association, Awarded scholarship

## Skills

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Coding Languages:      Python (4 yrs), Java (3.5 yrs), Dart (1 yrs), JavaScript, HTML, CSS(2 yrs), C++ (1 yr)

Frameworks:      Flask (2 yrs), React (2 yrs), Flutter (1 yr), Spring Boot 2.0 (1 yr)

DevOps & Cloud:      GitHub CI/CD, Unit Testing, Docker, AWS (Lambda, EC2, RDS), Firebase, Terraform

Databases:      MySQL, MongoDB, Firebase NoSQL

Other:      Agile & Scrum, RESTful API, SDLC, Version Control (Git)

*\* yrs include academic experience*

## Work Experience

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**Full Stack Android & Web Developer (Java, Android, MySQL)**      **2024.09 - Now**

**Taptouch, Melbourne**

Description: **Designed and implemented membership and voucher features** in Java, integrating business logic with backend MySQL databases and Android front-end components. Successfully delivered scalable modules now supporting operations in **2000+ Australian/UK stores**, improving customer engagement and system functionality.

- Designed and implemented membership and voucher modules with a strong emphasis on code maintainability, modular design, and testability.
- Built backend data associations in MySQL, ensuring ACID-compliant transactional integrity at scale.
- Wrote integration and unit tests using JUnit; performed validation through field tests on Android POS devices.

## Full Stack Web Developer internship (React, TypeScript, Node.js, Firebase)

2023.12 - 2024.04

### InflaMed, Melbourne

Description: *Developed the online consultation module and profile page for a Web & Mobile Healthcare platform supporting outpatient appointments and remote video consultations.*

- Delivered **TypeScript-based SPA** with responsive UI for remote patient consultations.
- Integrated **Dyte API** after benchmarking against 100ms & Zoom, aligning product with clinical use case requirements.
- Contributed to full-stack testing, including **SSR** performance validation and **API regression** testing.
- Automated backend deployments via Terraform + GitHub Actions, reducing post-release bugs and manual steps.

## Full Stack Web Developer (Python, Flask, React, AWS)

2021.09 - 2022.06

### Harbin Institute of Technology, AI Research Co., Ltd, China

Description: *Developed a code-free AI training visualisation platform for students to train and test models (image classification, segmentation, detection). Deployed in university teaching environments, demonstrating real-world usability and impact in AI education.*

- Engineered Flask-based RESTful API and modular backend architecture (MVC) to support training engines (PyTorch).
- Developed a visual AI training platform used by students with no coding background, demonstrating usability focus.
- Deployed system via Docker & Jenkins CI/CD pipelines for high availability in university settings.
- Addressed CORS, routing and load balancing issues using Nginx, ensuring cross-device compatibility and performance.

## Reference

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Mari Robert	CEO of InflaMed	mari@inflamed.com.au
Larry Yu	Product Owner & Sys Architecture in Recam	larryyu@recam.com.au