

# Melvin Darial Yogiana

Indonesia

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## SUMMARY

Frontend-focused Software Developer with hands-on experience leading development teams and building production-ready web applications. Proven track record of delivering high-impact projects including a **1st place hackathon win** at CSESoC 2025 and multiple full-stack applications with **70%+ test coverage**. Skilled in **React, TypeScript, Next.js, and Node.js** with additional experience in **Python ML pipelines** and **Atlassian Forge development**. Seeking a software engineering role where I can leverage my technical expertise and leadership experience to build scalable, user-centric solutions.

## EDUCATION

### University of New South Wales (UNSW)

*Bachelor of Science in Computer Science*

### UNSW College

*Diploma in Computer Science*

Sydney, Australia

2023 – 2025

Sydney, Australia

2022 – 2023

## EXPERIENCE

### Frontend Lead

PPIA UNSW – IT Team

Aug 2025 – Nov 2025

Sydney, Australia

- **Led a 10-person cross-functional team** to deliver a professional networking platform, establishing Agile workflows with daily standups and weekly sprint reviews that improved team velocity by reducing blockers
- **Architected the frontend system** using React and TypeScript, implementing component-based design patterns that enabled 3 parallel feature developments without merge conflicts
- **Drove stakeholder alignment** through bi-weekly demos with PPIA board members, translating user feedback into 15+ feature enhancements that shaped the product roadmap
- **Mentored 4 junior developers** on React best practices, code review processes, and Git workflows, accelerating their onboarding and improving overall code quality

## HONORS & AWARDS

### CSESoC 2025 Flagship Hackathon – 1st Place Winner | React, TypeScript, Node.js, WebSocket

Jul 2025

- **Won 1st place among 50+ teams** by developing OnlyCode, a real-time collaborative coding platform addressing developer isolation on traditional practice platforms
- **Engineered WebSocket-based real-time collaboration** enabling synchronized pair programming with  $\leq 100\text{ms}$  latency, supporting concurrent editing sessions
- **Implemented skill-based matchmaking algorithm** that pairs users with helpers based on topic expertise and availability, reducing average wait time for assistance
- **Designed gamification system** with XP tracking, badge achievements, and leaderboards to incentivize community participation and knowledge sharing
- GitHub: [github.com/MelvinDY/OnlyCode](https://github.com/MelvinDY/OnlyCode)

## PROJECTS

### RateMyAccom NSW | Next.js 14, TypeScript, React 18, TailwindCSS, Prisma, Jest

2025

- **Shipped production-ready platform** with 124+ commits for student accommodation reviews, implementing end-to-end features from authentication to search
- **Achieved 70%+ test coverage** using Jest and React Testing Library, with automated CI/CD pipeline catching regressions before deployment
- **Implemented 6 security layers:** CSRF token validation, rate limiting (100 req/min), XSS sanitization, SQL injection prevention, CSP headers, and HSTS enforcement
- **Built multi-dimensional rating system** with 6 categories (cleanliness, location, value, amenities, management, safety) and advanced filtering by university, price, and amenities
- GitHub: [github.com/MelvinDY/ratemyaccom](https://github.com/MelvinDY/ratemyaccom)

### Jalanalytics | Python, YOLOv8, OpenAI CLIP, ByteTrack, Computer Vision

2025

- **Developed ML pipeline** analyzing CCTV footage to estimate area income levels through vehicle detection, tracking, and classification with 34+ commits
- **Integrated YOLOv8 object detection** with ByteTrack for unique vehicle counting, eliminating double-counting errors in high-traffic scenarios
- **Implemented zero-shot classification** using OpenAI CLIP to identify 50+ vehicle makes/models without labeled training data
- **Optimized for Indonesian market** detecting commercial vehicles (Gojek, Grab, angkot) and handling 70-80% motorcycle traffic density
- GitHub: [github.com/MelvinDY/Jalanalytics](https://github.com/MelvinDY/Jalanalytics)

**PPIA UNSW Networking Platform** | *TypeScript, React, REST APIs* Aug 2025 – Nov 2025

- **Architected LinkedIn-style platform** connecting 500+ Indonesian students and alumni with profile management, connections, and event discovery
- **Implemented real-time notifications** and event management system with calendar integration and community news distribution
- **Project status:** Development paused due to organizational leadership transition; core features completed and ready for deployment
- GitHub: [github.com/MelvinDY/PPIA](https://github.com/MelvinDY/PPIA)

**Ignite – PPIA UNSW Website** | *TypeScript, Next.js* 2025

- **Delivered organization's primary web presence** serving as the digital hub for PPIA UNSW 2025 with event listings and community resources
- GitHub: [github.com/MelvinDY/ignite](https://github.com/MelvinDY/ignite)

**Confluence Q&A Helper** | *UNSW x Atlassian Client Project* Sep 2025 – Present

- **Developing enterprise Q&A system** for Atlassian client engagement, enabling real-time audience interaction during town halls and live events
- **Building question management features** with upvoting, moderation queues, and presenter-facing dashboards for streamlined session facilitation

**Stale Page Hunter** | *Atlassian Forge, Rovo AI, React, Node.js, UI Kit 2* Dec 2025

- **Built AI-powered Confluence app** for Codegeist 2025 hackathon that automates detection of outdated documentation using Rovo AI natural language processing
- **Developed Space Health Dashboard** with A-F grading system, visualizing documentation freshness across 100+ pages with sortable tables and bulk action capabilities
- **Created Stale Page Info macro** displaying real-time staleness metrics, freshness percentage calculations, and one-click “Mark as Fresh” functionality

**Personal Portfolio Website** | *TypeScript, Vercel* 2024

- **Designed and developed** a personal portfolio website to showcase projects, skills, and professional experience
- Live: [melvindy.vercel.app](https://melvindy.vercel.app) | GitHub: [github.com/MelvinDY/portfolio](https://github.com/MelvinDY/portfolio)

## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, Python, HTML5, CSS3, SQL, PLpgSQL

**Frontend:** React, Next.js 14, TailwindCSS, Sanity CMS, UI Kit 2, Responsive Design, Component Architecture

**Backend:** Node.js, Express.js, REST APIs, Prisma ORM, PostgreSQL, WebSocket, Authentication/Authorization

**AI/ML:** YOLOv8, OpenAI CLIP, ByteTrack, Computer Vision, Object Detection

**Tools:** Git, GitHub, Vercel, Jest, React Testing Library, CI/CD, Atlassian Forge, Puppeteer, Cheerio, Agile/Scrum

**Security:** CSRF Protection, Rate Limiting, Input Sanitization, XSS/SQL Injection Prevention