

Rany Hakley Hong

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Summary

Software Engineer and Swinburne University Graduate with a strong foundation in building scalable, user-centric mobile and web applications. Leveraging 6 months of industry experience at Water Source Australia, I spearheaded the end-to-end mobile development of an IoT-integrated filtration system. Proficient in React, TypeScript, Flutter, and Kotlin, I specialize in clean architecture (MVVM), real-time data visualization, and professional cross-functional collaboration. Passionate about bridging the gap between hardware and software through intuitive digital interfaces.

Skills

- **Web Development:** React, Next.js, TypeScript, JavaScript (ES6+), VueJS, Tailwind CSS, HTML5/CSS3.
- **Mobile Development:** Flutter (Dart), Kotlin (Jetpack Compose), MVVM Architecture.
- **Backend & Cloud:** Node.js, FastAPI (Python), Firebase, Docker, RESTful API Design, SQL (PostgreSQL, Room).
- **Tools & DevOps:** Git/GitHub, AWS, Docker, Azure, CI/CD (GitHub Actions), Jira, Confluence, Agile/Scrum.
- **Other Languages:** C++, C, Java, Python.

Experience

Water Source Australia

2025 August - Present

Intern Software Engineer

South Melbourne, VIC

- Collaborated in an Agile environment, participating in sprint planning and code reviews to maintain high code quality and meet project milestones.
- Architected and developed a cross-platform mobile application using Flutter and Dart, enabling real-time monitoring and control of water purification systems.
- Proactively sought technical mentorship from senior engineers, implementing industry best practices in modular code structure and scalable state management.
- Conducted comprehensive market research and trade-off analysis to select the optimal Android tablet hardware, evaluating CPU performance, display durability, and cost-efficiency for industrial environments.
- Authored detailed technical documentation and system integration protocols, ensuring clear knowledge transfer between the software, hardware, and maintenance teams.

ALH Boundary Hotel

2025 July - Present

Duty Manager and Social Media Manager

Bentleigh, VIC

Castello's Cardinia Hotel

2023 December – 2025 July

Gaming Attendant and Supervisor

Pakenham, VIC

Education

Swinburne University of Technology

Hawthorn, VIC

Bachelor of Computer Science, Software Development Major

2023 June – 2025 December

Relevant Coursework: Object Oriented Programming, Data Structure Algorithms, Intelligent Systems, Cloud Computing Architecture.

Projects & Extracurriculars

My Kanji Android App

- Developed a native Android application using Kotlin, strictly adhering to Material Design guidelines and MVVM architecture.
- Implemented Full CRUD, allowing users to manage a personal library of Kanji characters.

Personal Portfolio Website

- Developed a full-stack personal website using React and Next.js, attracting 500+ unique visitors in its first month.
- Integrated Resend API for seamless user messaging and email functionalities to enhance the user experience.

Full-stack AI House Price Prediction Website

- Created a responsive and accessible website using Next.js for frontend, and FastAPI for backend integration.
- Utilized Python for data processing and model training, achieving accurate predictions.
- Managed the project using Confluence and Jira, following Agile methodologies to enhance productivity.

Delivery Vehicle Routing System

- Tackled a complex Constraint Vehicle Routing Problem with Time Window (CVRP-TW) using optimization algo techniques.

Full-stack E-commerce Website

- Designed a fully responsive e-commerce website with VueJS and Bootstrap, ensuring high accessibility standards.
- Integrated Firebase for secure user authentication and data storage, maintaining high standards for data protection.

Team Lead for University's Database Project

- Directed a cross-functional team of five in designing and implementing a robust database system, improving workflow efficiency and collaboration across project phases.