

Hok Heng

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PROFESSIONAL SUMMARY

Full-stack developer and Computer Science graduate with experience building scalable microservices, CI/CD pipelines, and cloud-native systems. Strong background in API-based integration, system interoperability, and AWS deployments. Passionate about writing clean, maintainable code and collaborating cross-functionally to deliver impactful solutions. Eager to contribute to high-traffic, mission-critical services in a global team environment.

EDUCATION

Monash College | Docklands, VIC

Mar 2024 – Mar 2025

ACS Professional Year

RMIT University, City Campus | Melbourne, VIC

Feb 2022 – Dec 2023

Bachelor of Computer Science – Distinction average

- Relevant coursework: Cloud Computing, Software Engineering, Database Systems
- **Certifications:** MS Power Platform Fundamentals, IBM Developing Front-End Apps with React, IBM Cloud Computing, RMIT Resilience & Adaptability, RMIT Sustainability 101

Deakin University, Burwood Campus | Burwood, VIC

Feb 2021 – Dec 2021

Bachelor of Computer Science

TECHNICAL SKILLS

Integration & APIs: REST, gRPC, Kafka, GraphQL

Automation & RPA: GitHub Actions, Zapier, Microsoft Power Automate

Cloud & DevOps: AWS (EC2, S3, RDS), Docker, Kubernetes, CI/CD Pipelines

Languages & Frameworks: Node.js, Java (Spring Boot), Python

Frontend: React.js, Tailwind CSS, Theatre.js, Material UI

Database: MySQL, PostgreSQL, Aurora (exposure via AWS)

Tools: JIRA, GitHub, VS Code

WORK EXPERIENCE

Software Engineer Intern | Beyond Zero Technologies

Nov 2024 – Feb 2025

- Designed and built responsive, animated UI components integrated with backend workflows
- Used Theatre.js and Three.js to improve system interactivity on a WebGL platform
- Contributed to Agile sprints and cross-functional feature delivery across frontend and integration layers

Machine Learning Engineer Intern | Sahara Space Pty Ltd

Jul 2023 - Nov 2023

- Assisted in algorithm refinement for satellite pose estimation using Python and deep learning models
- Improved model performance through rigorous testing, hyperparameter tuning, and architecture refinement, achieving an **F1 score of 83%** on validation data
- Delivered technical insights and prototypes to a cross-disciplinary aerospace team, setting the stage for further development and deployment

Customer Service Team Member | Woolworths QV

Mar 2023 - Jan 2024

- Delivered excellent service in a high-volume environment with strong attention to detail and process
- Demonstrated adaptability, communication, and data accuracy when working across team functions

PROJECTS

Integration-Focused Backend System (Microservices) – Java (Spring Boot), Kafka, Docker, AWS

- Developed backend services with Kafka-based communication for secure, scalable scheduling logic
- Implemented role-based authentication (JWT) and deployed using Docker + AWS EC2
- Focused on inter-service communication and integration lifecycle testing

Grocery Price Comparison Platform – React, Spring Boot, MySQL, Docker, GitHub Actions

- Built and containerized full-stack services with RESTful APIs and dynamic UI filtering
- Set up CI/CD pipeline with GitHub Actions for automated testing, build, and deployment
- Optimized database-driven interactions and maintained clean, modular codebase

Portfolio Website – React, Next.js, Tailwind CSS, Framer Motion

- Created a high-performance, responsive personal site integrating form validation, animation, and notification tooling
- Demonstrated frontend integration with email delivery and form libraries