

Hok Heng

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PROFESSIONAL SUMMARY

Computer Science graduate and Software Engineer with a strong foundation in C#, object-oriented programming, and backend development. Passionate about building scalable software systems, working with SQL databases, and optimising backend performance. Highly adaptable and eager to expand expertise in .NET Core and cloud technologies. Proven ability to quickly learn and apply new technologies in collaborative team environments.

EDUCATION

RMIT University, City Campus | Melbourne, VIC

Feb 2021 – Dec 2023

Bachelor of Computer Science

Certifications: MS Power Platform Fundamentals, IBM Developing Front-End Apps with React, IBM Cloud Computing, RMIT Resilience & Adaptability, RMIT Sustainability 101

WORK EXPERIENCE

Freelance Software Engineer | Self-employed

Apr 2025 – Present

- Designed and developed an end-to-end serverless automation pipeline using AWS (Lambda, S3, SQS, Textract) to extract data from invoice images sent via Telegram
- Integrated a Telegram bot with WebSocket to receive and archive images, triggering an OCR pipeline using AWS Textract for data extraction
- Trained and fine-tuned a custom ML model to improve invoice parsing accuracy tailored to client-specific formats
- Transformed extracted data and appended it to Google Sheets via Google Sheets API, eliminating manual data entry
- Replaced costly third-party automation tools by delivering a low-cost, scalable AWS-based solution
- Led client consultations, gathered business requirements, and identified process bottlenecks to inform system design and future improvements
- Resulted in significant time savings, improved data accuracy, and provided a foundation for further automation scalability

Software Engineer Intern | Beyond Zero Technologies

Nov 2024 – Feb 2025

- Developed and maintained a large-scale sustainability dashboard for a leading logistic company, improving data visualisation and reporting
- Worked closely with senior developers to build backend logic and APIs, ensuring optimised database queries and scalable architecture
- Collaborated with QA and product teams to define functional acceptance criteria, leading to critical design refinements and improved user experience
- Recognised for quick learning, problem-solving, and teamwork, consistently exceeding expectations in both backend and frontend development
- Thrived in an agile environment, utilising GitHub, Jira, and Confluence for version control, documentation, and collaboration across teams

Machine Learning Engineer Intern | Sahara Space Pty Ltd

Jul 2023 - Nov 2023

- Led the development of a computer vision-based Machine Learning model capable of estimating spacecraft's pose from satellite images
- Performed testing and implemented optimisation techniques to refine the model's performance

Customer Service Team Member | Woolworths QV

Mar 2023 - Jan 2024

- Rotated in all areas, including handling customer queries, and scanning groceries, to ensure a great shopping experience
- Contributed to team building and fostered a collaborative work environment
- Demonstrated adaptability by efficiently handling various tasks and responsibilities

PERSONAL PROJECT

Portfolio Website | *React.js, Tailwind, Next.js*

- Developed a responsive personal portfolio website using React.js and Next.js, styled with Tailwind CSS for a modern and sleek appearance
- Implement Framer Motion for smooth animations, React-hook-form for efficient form handling, React-Toastify for user notifications, enhancing user experience and engagement
- Integrated Zod for form validation and Resend for email functionality, ensuring data accuracy, security, and seamless communication with visitors directly from the website