

Book Sam

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Professional Summary

Full-stack Software Engineer with 5 years of experience across AI-enabled product delivery, cloud-native systems, and self-hosted AI infrastructure. Proven track record at Microsoft in migrating complex VDI products into Azure AI Studio and improving enterprise document intelligence workflows, while independently building private local-LLM environments for hands-on AI application development. Currently pursuing a Master of IT at Adelaide University with a focus on scalable systems, AI engineering, and modern web platforms.

Experience

Software Engineer, VDI Team

Mar. 2022 – Apr. 2025

Microsoft | Taipei, Taiwan

- Orchestrated the migration and integration of VDI products into Azure AI Studio, aligning legacy capabilities with scalable AI-enabled workflows.
- Utilized AI-assisted programming tool Copilot to accelerate optimization of Azure Form Recognizer workflows for enterprise document processing.
- Architected repeatable Linux development workflows with WSL2, reducing manual configuration overhead and improving team-wide delivery velocity.
- Improved product reliability through comprehensive unit testing with Jest and React Testing Library.
- Advocated for and implemented core accessibility features to ensure inclusive product design.

Front-End Developer

Feb. 2021 – Feb. 2022

Gold Crown Technology Co., Ltd. | Taipei, Taiwan

- Developed high-performance applications using React, Vue, and TypeScript, focusing on intuitive UX.
- Improved SEO and load times by implementing Server-Side Rendering (SSR) via Next.js and GraphQL.

Front-End Developer

Nov. 2020 – Feb. 2021

DediProg | Taipei, Taiwan

- Maintained and modernized legacy codebases utilizing jQuery and optimized front-end performance.

Front-End Developer

Feb. 2020 – July 2020

KozyGuru | Taipei, Taiwan

- Built the core property management platform for Australian Airbnb listings.

Projects

Microsoft Form Recognizer Toolkit | *Open Source, Azure AI, GitHub*

- Contributor to Microsoft's open-source Form Recognizer Toolkit, supporting document intelligence tooling in a production-adjacent open-source codebase.

Microservice Demo Auction Platform | *.NET 8, Next.js 14, RabbitMQ, gRPC*

- Built a containerized auction platform with decoupled microservices, an API gateway, message-bus communication, real-time updates, and authentication flows, demonstrating hands-on microservice architecture experience via microservice-demo.

AI Agent Development | *Java 21, SpringBoot AI, Vue.js, PGvector*

- Built a RAG-based conversational AI and an autonomous planning agent using Java 21, Spring AI, and PGvector
- Implemented document ingestion, vector embedding, and semantic retrieval pipeline from scratch
- Developed tool-calling integrations (web search, PDF generation, web scraping) used by a ReAct-pattern agent
- Integrated MCP protocol for standardized external service communication

Skills

Languages: TypeScript, Python, C#, JavaScript, Java, HTML/CSS

Frameworks: React, NestJS, Next.js, Vue 3, Redux, Node.js

Cloud & Tools: Azure AI Studio, WSL2, Git, Proxmox, Linux, Selenium

Database: MySQL, PostgreSQL, MongoDB, GraphQL

AI Application: Antigravity, Codex, Ollama, RAG Architectures, AI Agent Development, Prompt Engineering

Education

Master of Information Technology

Adelaide University

2026 - July 2027

Adelaide, Australia

Master of Information Technology

University of South Australia (UniSA)

2025 - 2026

Adelaide, Australia

Bachelor of Science

Fu Jen Catholic University

2013 – 2017

Taipei, Taiwan

Referees

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