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FULL STACK DEVELOPER | AI AGENTS AND EVALUATION

TECHNICAL SKILLS

Full stack: Python, TypeScript, JavaScript, FastAPI, Node.js, Express, React, Next.js
Data: MongoDB, MySQL, Supabase; query optimisation, caching, pagination
AI and agents: RAG, LangChain, agent orchestration, DeepEval, Agent2Agent (A2A), Model Context Protocol (MCP), reusable agent skills
Machine learning: Recommender systems, user-based collaborative filtering, KNN, cosine similarity, LightGBM, CNNs
Cloud and delivery: AWS ECS Fargate, Bedrock, S3, Docker, GitHub Actions CI/CD, CloudWatch, Redis/RQ, Vercel

PROFESSIONAL EXPERIENCE

OOm Singapore
Full Stack Developer (AI) Mar 2025 - Present

- Built a Generative Engine Optimisation (GEO) platform for **300+ clients**, tracking brand mentions, sentiment and share of voice across ChatGPT, Google AI Overviews/AI Mode, Gemini and Perplexity; automated monthly PDF/email reports.
- Orchestrated **AI agents** to compare client and competitor domains and recommend keywords for SEO proposals.
- Built a **FastAPI** SEO crawler with Playwright/Crawl4AI to extract metadata, structured data, security and backlink signals; queued background audits with **Redis/RQ**.
- Built SEO research, content and reporting workflows with **Node.js/Express, React and MongoDB**; implemented role-based access control for **20 roles** and JWT authentication across **5 services**.
- Deployed **Docker** services on **AWS ECS Fargate** through **GitHub Actions CI/CD**, with CloudWatch monitoring, EventBridge scheduling and ElastiCache queues.
- Optimised server response times through **database query optimisation, caching and pagination**.

FREELANCE WEB DEVELOPER Dec 2023 - Feb 2025

- Built responsive **React and Next.js** applications with AWS and Firebase; deployed through Vercel.

SELECTED PROJECTS AND RECOGNITION

AgentEval | Hackathon Winner Daytona HackSprint SG 2026
[Live Site](#) | [Source code](#)

- Co-built a **Next.js/FastAPI agent evaluation** platform measuring A2A agent accuracy and consistency across repeated calls in network-restricted **Daytona sandboxes**.
- Combined **DeepEval** scoring with **semantic response clustering** to detect consistency drift; displayed per-run scores and explanations in an interactive dashboard.

Auction Recommendation Models | Final Year Project 2025

- Developed a **user-based collaborative filtering** model using **KNN and cosine similarity** to generate recommendations from similar users' preferences.
- Developed **CNN image analysis** and **LightGBM price prediction** models to suggest auction listing prices from uploaded product images and product details.

Ahoy Club | Yacht Charter Website Australia
[Live Site](#)

- Built a **Next.js** yacht charter website with filtered search, a matching quiz and enquiry forms; integrated external yacht data and CMS-managed content.

EDUCATION

UNIVERSITY OF WOLLONGONG Mar 2025
Bachelor of Computer Science | Big Data
SINGAPORE INSTITUTE OF MANAGEMENT Apr 2023
Diploma in Information Technology