

SON NGO

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I help organisations build websites and software products using the latest technologies on the market, such as LLM and RAG systems. With skillsets in full-stack and agile development, combined with AI/ML and data science expertise, I can integrate AI into your business workflows and enhance user experience for your products.

WORK HISTORY

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| CSIRO Clayton - Machine Learning Specialist | <u>Feb 2025 – Feb 2026</u> |
| • Ranked Top 13 out of 370+ global participants in an AI-for-drug-discovery challenge , achieving a macro-averaged relative absolute error of 0.588 . | |
| • Conducted research in AI for drug discovery and assessed its real-life applicability. Apply AI to predictive analysis of molecules' pharmacokinetic properties, which accelerates drug screening and reduces its cost. | |
| • Curated large-scale datasets, ran multitask learning experiments, optimised hyperparameters, and engineered molecular embeddings using Graph Neural Networks . | |
| • Leveraged HPC + SLURM to streamline large-scale experimentation and boost productivity. | |
| • Collaborated across AI, chemistry and bioengineering teams, producing clear technical reports and translating complex concepts for diverse stakeholders . | |
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| Unibuz - Founding Full-stack Developer (small start-up) | <u>Sept 2024 – Feb 2025</u> |
| • Deployed a social media platform that brings together students from different universities. Main functionalities include social groups, public events, news feed, message chat and marketplace. | |
| • Develop a friendly user interface using React, TailwindCSS and TypeScript . Design database schema with UML diagrams and implemented it in MySQL . Experienced with API development with Supabase . | |
| • Perform full-stack development with agile development , in which the platform's workflow is broken down into small, actionable items. Consistently communicate and update with the CEO and the project coordinator about functionalities and progress. | |
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| Kois AI - NLP Engineer Intern (small start-up) | <u>June 2024 – Sept 2024</u> |
| • Developed and launched a recruitment platform called Starplan for recruiters and job seekers with agile development , providing functionalities such as job description (JD) generation, resume summarisation, and candidate recommendations, streamlining recruitment processes. | |
| • Led the development of JD generation functionality, a key differentiator for the platform, enhancing its uniqueness in the job-seeking market by automating the creation of job descriptions. | |
| • Engineered and optimised prompts using GPT-4o-mini API for generating job descriptions for technical roles, achieving a high similarity score of 0.8-0.9 compared to sample JDs, improving relevance and quality . | |
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| Aetosky - Machine Learning Summer Internship | <u>Nov 2023 – March 2024</u> |
| • Labelled and processed satellite images using QGIS , applying vector polygons to create ground-truth labels, and configured the Mask-RCNN model to generate object masks with enhanced segmentation accuracy. | |
| • Improved the accuracy of the models (for buildings, roads, trees, and recreational pools) by 15% through optimising the ROI ratio to 0.5 and RPN confidence score threshold to 0.9 , aiding infrastructure planning efforts. | |
| • Collaborated with supervisors and the project manager to report and analyse deep learning model performance, leading to informed decision-making in model evaluation and smooth MLOps . | |

SIDE PROJECTS

Crypto trading website:

- The website has a relational database of more than 20 crypto options for users to purchase. Users can decide the amount of crypto they want to buy and sell. JavaScript is the main development language.

- Smart contract (programmed using Solidity and Web3) integrated for reliable and encrypted transactions, utilising Ganache blockchain with 100 ETH for each account initially. The front-end was built with React.js

Restaurant Information System:

- This website is designed using ASP.NET Core and MVC architecture, which are efficient solutions for RESTful API. Relational database is built using MySQL. It can take and managing orders from customers, as well as a display menu and record customers' feedback.
- Minimalism-styled front end is designed using Bootstrap.

Vector search query engine:

- A vector search index is built from the non-relational MongoDB database, with KNN algorithm and text embeddings to find relevant context based on given keywords. The database is imported from open-sourced dataset on Huggingface platform.
- Query engine answers user's questions precisely, by utilising GPT-4o model API and the context extracted from the vector search pipeline.

EDUCATION

Swinburne University of Technology - Bachelor of Computer Science (Professional)

Aug 2022 - May 2026

- **Highlighted skills acquired:** Software Architecture and Design, Object-Oriented Programming, Cloud Computing, Full-stack development, AI development (major)
- **Highlighted achievements:** top 15% in cohort, 50% tuition fee scholarship
- **GPA:** 3.55

COMMUNITY/VOLUNTEER WORK

Striped Project – Volunteer

2020 - 2021

- An environmental sustainability club organised by high-school students.
- Making flowerpots from recycling plastic bottles, educating autistic children about the environment protection, sending clothes and food to poor Vietnamese ethnic minority in remote areas, etc.

Hanoi Model United Nations – Delegate of Japan

2021 - 2022

- A simulation of UN conference for high-school students.
- Casting as a delegate of Japan. Debating and writing decree for issues regarding space exploration between nations.

AWARDS & CERTIFICATIONS

- **Golden Key International Honour Society Member – Top 15%:** Recognised as the top 15% of high-performing students in all academic disciplines, validated by Swinburne University of Technology.
- **Machine Learning Specialisation:** completion of 3 courses about the fundamentals of Machine Learning provided by DeepLearning.ai with Andrew Ng as the main lecturer.
- **Python for Data Visualisation:** Completion of a course on LinkedIn Learning teaching about using pandas and Matplotlib for visualising data.
- **Python Essentials 2:** completion of Python Essentials 2 courses provided by Cisco Corp.

SKILLS

- **Programming Languages:** C++, C#, Ruby, Python, JavaScript, TypeScript, HTML/CSS
- **Specialised areas:** Database Design and Management, UI/UX Design, Cloud Computing, Software Architecture and Design, Microservices, Agile Development, Blockchain Development, RESTful API
- **Frameworks and Libraries:** AWS cloud, MySQL Workbench, MongoDB, ASP.NET Core, React, Web3, Git, Figma, PyTorch
- **Soft skills:** Self-learning, Attention to Details, Technical Documentation, Leadership, Problem Solving, Team Collaboration, Customer Service, Interpersonal Communication
- **Hobbies:** Gym, Basketball, Soccer, Reading books, Growing plants

REFERENCE: AVAILABLE UPON REQUEST
