THE SON NGO (SON)

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https://github.com/Ngoson2004 | https://huggingface.co/goodcoffee

WORK HISTORY

Aetosky (Former Skymap Global Pte Ltd) –   Nov 2023 – March 2024
Machine Learning Summer Internship

- Improved the accuracy of object detection models (for buildings, roads, trees, and recreational pools) by 15% through optimizing the ROI ratio to 0.5 and RPN threshold to 0.9, aiding infrastructure planning efforts.

- Labeled 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.

- Collaborated with supervisors and project manager to report and analyze deep learning model performance, leading to informed decision-making in model testing and analysis.

Kois AI – LLM and Software Engineering Internship   June 2024 - Sept 2024

(Koi AI is a start-up group)

- Developed and launched a job platform called Starplan for recruiters and job seekers using Agile methodology, providing functionalities such as job description (JD) generation, resume summarization, and candidate recommendations, streamlining recruitment processes.

- Led the development of the JD generation functionality, a key differentiator for the platform, enhancing its uniqueness in the job-seeking market by automating job description creation.

- Engineered and optimized prompts using GPT-4o-mini API for generating job descriptions for roles like Data Scientist, Security Analyst, ICT Manager, and Software Engineer, achieving a high similarity score of 0.8-0.9 compared to sample JDs, improving relevance and quality.

FPT Software – Remote AI Engineer Internship   July 2024 – Oct 2024

- Explored the application of multimodal models in manufacturing, leveraging their ability to simultaneously process computer vision and human language to enhance operational efficiency.

- Led a team to fine-tune the BLIP multimodal model for meter reading in a factory setting, utilizing a dataset containing labeled images and question-answer pairs to improve accuracy and automation. The project is currently in progress, with promising early results.

OTHER EXPERIENCE

Delaware North ANZ/Melbourne Cricket Ground -   March 2023 - Present
Casual Bar Attendant

- Experience with customer service and hospitality. Communicate efficiently with team leaders and other employees.

- Work collaboratively in a team to bring the best beverage to customers.

- Use social listening skills to understand customers' complaints, thus effectively resolving any arisen issues.

COMPLETED PROJECTS (PLEASE VIEW MY GITHUB AND HUGGINGFACE FOR MORE 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 HISTORY

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, Front-end Design, Database Design and SQL, IT security, AI development (major)

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.

LICENSES & CERTIFICATIONS

- **Python for Data Visualisation:** completing a course on Linkedin Learning teaching about using pandas and Matplotlib for visualising data.

- **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 Essentials 2:** completion of Python Essentials 2 courses provided by Cisco Corp.

- **General Certificate of Education Advanced Subsidiary Level and Advanced Level - Cambridge Assessment International Education:** 3 A* for A-level Mathematics, Physics and Chemistry

SKILLS

- **Programming Languages**: C++/Ruby/C#/Python/JavaScript/MySQL/NoSQL/Solidity
- **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