LIM SHAO KIAT

shaokiat@gmail.com | Portfolio Website | GitHub | LinkedIn

EDUCATION

National University of Singapore
Bachelor of Computing in Computer Science, 2nd Class (Upper) Honors

SKILLS

Proficient Languages
English · Chinese

Programming Languages
Python · JavaScript · TypeScript · Java · HTML · CSS

Libraries and Frameworks
OpenCV · Ultralytics · Angular · Pandas · Sci-kit learn · NodeJS · Kubernetes · Docker · LangChain

Cloud Platforms and other Softwares
Google Cloud Platforms · AWS · IIoT· Tableau

EXPERIENCE

Micron Semiconductor Asia, *Data Scientist, Singapore*   *Jul 2023 – Present*
- Worked as part of the global team, collaborating with cross-functional teams across sites in Japan, Taiwan, and the US, effectively driving alignment on project goals and delivering solutions that met the global requirements.
- Directed a Predictive Maintenance project for manufacturing tools by collaborating with stakeholders and applying machine learning models. Achieved impactful cost savings, and minimized downtime. Improved Manufacturing Availability, leading to estimated $1.5 million cost savings (3 year NPV). (Python, GCP, Sci-kit learn)
- Led development efforts of a video analytics project utilizing object and anomaly detection, achieving potential annual savings of $2 million per year. (YOLOv8, OpenCV)
- Developed essential edge scripts on Raspberry Pi for anomaly detection project, significantly improving real-time monitoring capabilities. (Python, Networking, IIoT)

Angsana Technology, *Software Engineer, Singapore*   *Aug 2022 – Jul 2023*
- Collaborated as part of the core development team to build and deliver a project aligned with Maritime and Port Authority Singapore (MPA) specifications, facilitating the digitalization of bunkering operations. **(TypeScript, Python)**
- Spearheaded the implementation of a continuous integration pipeline, automating API and end-to-end tests using GitHub Actions to ensure seamless code commits. **(DevOps, GitHub Actions, Playwright)**

PROJECTS

Similarity Search with RAG | *BERT and Vectorstore*   *Sept 2023 – Present*
- Exploration project to learn more about Large Language Models (LLMs) and implemented a Retrieval-Augmented Generation (RAG) system using a vector store to build a chatbot that answers queries based on my blog content. (Python, Hugging Face, FAISS)
- Implemented a vector search algorithm to retrieve texts with the highest similarity based on cosine similarity.

Shao Kiat's Blog | *Self-hosted Blog*   *Apr 2022 – Present*
- Created and self-hosted a blog utilizing the open-source Docusaurus framework.
- Authored and published beginner-friendly articles covering foundational topics such as Web3 principles and the mechanics of automated market makers, aimed at demystifying complex concepts for newcomers to the ecosystem.

CERTIFICATIONS

Coursera
- Smart Analytics, Machine Learning, and AI on Google Cloud – *Issued: Aug 2023*
- Google Cloud Fundamentals: Core Infrastructure – *Issued: Aug 2023*

LEADERSHIP EXPERIENCE & ACTIVITIES

Micron Transport Committee, *Sub-Committee Member*   *Jul 2023 – Present*
- Actively participated in the planning and facilitation of company transport logistics, ensuring smooth transportation services for over 2,000 employees.