

LIM SHAO KIAT

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EDUCATION

National University of Singapore

Bachelor of Computing in Computer Science

- 2nd Class (Upper) Honors
- Awarded SgIS Full-term Scholarship

SKILLS

Languages

Python · JavaScript · TypeScript · Java · HTML · CSS

Libraries and Frameworks

OpenCV · YoloV8 · Angular · Pandas · sci-kit learn · NodeJS · Kubernetes · Docker

Other Tools and Software

Google Cloud Platforms · AWS · IIoT · Tableau

EXPERIENCE

Micron Semiconductor Asia, Data Scientist, Singapore

Jul 2023 – Present

- Directed a predictive maintenance project for manufacturing tools by collaborating with stakeholders and applying statistical models. Achieved impactful cost savings, and minimized downtime, improving up to 0.4% Manufacturing Availability. **(Python, Google Cloud Platforms, 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, IoT)**

Angsana Technology, Software Engineer, Singapore

Jan 2023 – Jul 2023

- Implemented CI pipeline such as API and end-to-end tests, and automating them using GitHub Actions, ensuring successful code commits.
- Set up automated UI testing for the web-application. **(Playwright, Chrome Devtools)**
- Develop Docker containers for project in preparation for production and scaling. **(Docker)**

Nested Technologies, Software Engineering Intern, Singapore

May 2022 – Aug 2022

- Advised and implemented suitable AWS hosting services with proper cost analysis, successfully reduced hosting cost by 30%.
- Handled production deployment of web applications on AWS ECS and EKS to ensure scalability with zero downtime, with appropriate CI/CD on GitHub. **(Kubernetes, Docker, ECS, EKS)**
- Improved and debugged the core web scraping feature of application; Implemented new ways of scraping infinite scrolling pages. **(Python, Pyppeteer, Django)**

Micron Semiconductor Asia, Data Science Intern, Singapore

May 2021 – Jul 2021

- Developed a data science web application by integrating existing algorithms into a usable interface, resulting in 50% of engineers having access to it. **(Python, Streamlit, Dash, Sklearn)**
- Conducted non-linear regression models to map the correction offset of manufacturing defects in the wafers, raising production yield.

PROJECTS

LeetGrindr | Interactive Code Editor

April 2022 – May 2022

- Allows for interactive coding interviews with friends while sharing the same code editor.
- Frontend client hosted on Vercel and backend server on Heroku. **(NextJS, Express, Redis, Socketio)**

Astral Farm | DeFi

Dec 2021 – April 2022

- Hosted DeFi projects on Fantom and Cronos network, with an accumulated TVL of 2 million USD.
- Developed smart contracts using Solidity and successfully deployed onto ERC-20 compatible Layer 1 networks, integrated with the ReactJS framework.

CO-CURRICULAR ACTIVITIES

Hackathon Finalist, Citi HackOverflow 2022

Aug 2022 – Aug 2022

- Finished as top 5 finalists out of 24 teams and was awarded most Outstanding Presentation.