

# LIM SHAO KIAT

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## EDUCATION

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### National University of Singapore

#### Bachelor of Computing in Computer Science

- 2<sup>nd</sup> Class (Upper) Honors
- Awarded SgIS Full-term Scholarship 2019

## SKILLS

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### Languages

Python • JavaScript • TypeScript • Java • HTML • CSS

### Libraries and Frameworks

ReactJS • NextJS • TailwindCSS • NodeJS • MongoDB • PostgreSQL • AWS ECS/EKS • Kubernetes • Docker

## EXPERIENCE

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### 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 0.3% manufacturing availability. **(Python, Google Cloud Platforms, Sklearn)**
- Developed essential edge scripts on Raspberry Pi for anomaly detection project, significantly improving real-time monitoring capabilities. **(Python, Networking, IoT)**

### Angsana Technology, Software Engineer Intern, 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 usable interface, resulted 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

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### Shao Kiat's Blog | Blog

April 2021 – Present

- Authored comprehensive blog posts documenting LeetCode solutions and exploring technology topics of personal interest, such as inner workings of Web3 and data analysis of personal experiences, reflecting a passion for sharing insights in these domains. **(Docusaurus, Markdown)**

### 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)**

## CO-CURRICULAR ACTIVITIES

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### Hackathon Finalist, Citi HackOverflow 2022

Aug 2022 – Aug 2022

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