AMOS LIEW

amosliew1999@gmail.com | +65 8614 5787 | https://github.com/amoscookeh | https://amos-liew.vercel.app/

EDUCATION

National University of Singapore   Singapore
Bachelor of Computing (Hon) in Information Systems;   Aug 2020 – May 2025
- Current CAP Score: 4.44 / 5.0
- NUS Overseas College, Silicon Valley
  - Awarded full NUS Venture Initiation Programme grant of SGD 10K
- NUS Sheares Hall Environmental Club, **Vice-President**
  - Initiated a gardening program to promote mental health and environmental consciousness
  - Developed a Telegram Bot to increase environmental awareness, serving over 500 residents

Victoria Junior College   Singapore
GCE 'A' Levels; 86.25/90   Feb 2016 – Dec 2017
- Track & Field, **Vice Captain**

EXPERIENCE

Liminal Insights Inc. – *Software Engineer*   Sep 2023 – Present
- Transitioned integration test suite from SQLite to **PostgreSQL** using a **database pooling** design

Liminal Insights Inc. – *Software Engineer Intern*   Aug 2022 – Aug 2023
- Improved DAQ throughput by 9% by using **Python multithreading, multiprocessing** and **Redis**
- Crafted automated QA testing tools such as test **OPCUA** servers leveraging **Python**, **Shell scripting**, **Docker**, and **Selenium**, enhancing engineering productivity by 25%
- Developed frontend features for a lab analytics platform utilising **Dash** and **Flask**
- Bolstered unit and integration test coverage with **PyTest**, increasing codebase integrity

Beex Autonomous Systems – *Software Engineer Intern*   May 2022 – Jul 2022
- Engineered interactive 3D data visualisations for point cloud data using **React** and **Three.js**
- Optimised search performance through **lazy loading**, reducing search times by 70%

Bellos (Pre-Seed Startup) – *Software Engineer Intern*   Dec 2021 – May 2022
- Led end-to-end design and development of reservation management platform used by 10 restaurants
- Migrated existing backend to a centralised **AWS** backend with API microservices that utilises **RDB**

Kinexcs – *Software Engineer Intern*   Jul 2021 – Dec 2021
- Developed data-driven features for mobile app used by over 30 clients using **Flutter**, **Flask**, and **Python**
- Drove computer vision MVP project with 2 other engineers using **OpenCV**, **Aruco**, and **MediaPipe**
- Led team of 6 as **Software Intern Lead** to concurrently manage development and release of 2 products

PROJECTS

Teyeland – *Stanford Treehacks 2023*   Feb 2023
- Developed a B2B online myopia diagnosis tool w/ Computer Vision & Voice Detection
- Built a **finite state machine** to handle the logic flow for integrating myopia tests into our web application
- The project was written in **Typescript**,and built with **NextJS, Mediapipe**, and **Deepgram**

PayMeLah Bot – *NUS Hack & Roll 2022*   Dec 2022
- Programmed a Web App and Telegram Bot using **Python** and **MERN** stack with OCR for bill splitting

SeeTurtle – *SUTD What The Hack 2021*   Sep 2021
- Awarded the Best Design award for a web app that integrates with a robotic turtle, sharing real time updates of ocean pollution, built using the **MERN** stack

PigUp! – *NUS Orbital 2021*   May 2021 - Aug 2021
- Developed interactive mobile game with **Flutter** targeting youths with a desire to better manage spending
- Implemented backend functionalities with **Python, Flask** framework
- Awarded the highest level of achievement - Artemis

SKILLS

- **Coding languages**: Python, Java, JavaScript, Dart
- **Technologies:** Git, Docker, ReactJS, Flutter, PostgreSQL, Mongo, Redis, Shell, Linux, OpenCV