# Jun Kit Lim

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## EDUCATION

**University of Michigan – Ann Arbor (College of Engineering)**  **Ann Arbor, MI**
BSE Computer Science || Minor in Mathematics  *August 2022 – Present*
- CGPA: 3.98, Major CGPA: 4.0
- Coursework: Web Systems, Computer Organization, Data Structures & Algorithms, Programming Paradigms, Foundations of CS, Multivariable Calculus, Linear Algebra, Discrete Math

## SKILLS

***Programming Languages:*** Python, C/C++, JavaScript, TypeScript, HTML, CSS, SQL, Rust, Bash, Makefile, MATLAB, R, SWI-Prolog, Scheme

***Technologies:*** Git, Docker, AWS (S3, DynamoDB, ECR, Amplify, Lambda, SQS, EC2), Flyte, React, Flask, CMake

## WORK EXPERIENCE

**Keysight Technologies**  **Penang, Malaysia**
R&D Software Engineering Intern || Tech Stack: C/C++, Python, CMake, Bash  *May 2024 – Present*
- Developed an AI integrated Python GUI to navigate, display and analyze Keysight instrument data in real time
- Implemented Bash scripts and CMake files to build the project in its entirety – compiling C++ to Python bindings, downloading dependencies and AI models, error checking etc.
- Fixed bugs in the C++ driver program causing both time-delayed and random crashes due to memory leaks.

**Tapway**  **Selangor, Malaysia**
AI Engineer (MLOps) Intern || Tech Stack: Angular, TypeScript, Python, Docker, AWS  *May 2023 – August 2023*
- Maintained a microservices backend for a ML model training and analytics web application which includes training and auto-labeling pipelines, AWS Amplify, AWS Lambda functions, and ML model libraries
- Integrated two post-processing stages in the training pipeline to handle ML model exports and data uploads
- Deployed an image auto-labeling model onto a serverless GPU provider (RunPod) for single-inference use cases
- Engineered a client-side data validation and analysis module in Typescript for YOLO format datasets and rewrote the COCO format version to reduce runtime on a 1.3GB dataset by 96% (17s to 0.7s)

## PROJECTS

**Noted (Google x MHacks)**  **Ann Arbor, MI**
Tech Stack:  Python, Flask, AWS, HTML, CSS, JavaScript, React, Gemini 1.5, Notion API  *April 2024*
- Built a Flask backend for a notes-generator web app including integrating with Google Gemini 1.5 Pro to process data and with Notion to authenticate end-users and create new Notion pages.
- Deployed and configured the backend on AWS EC2 with Nginx and Gunicorn

**deTrash (HackOHIO – 2nd place ENGIE Sponsor Challenge)**  **Columbus, OH**
Tech Stack: Python, Docker, Flask, AWS, Sveltekit, TypeScript, HTML, CSS, Vercel  *October 2023*
- Designed a containerized Flask backend for a web app to identify litter from an image, store its geolocation in a database (AWS DynamoDB), and provide recycling suggestions that comply with local state laws.
- Leveraged AI for object detection and text generation needs using YOLOv5 and LangChain respectively.

**Let's Cook! (HackGT X – 1st place in Sustainability Track)**  **Atlanta, GA**
Tech Stack:  Python, Docker, RunPod, TypeScript, Next.js, Tailwind CSS, Vercel  *October 2023*
- Deployed a containerized microservices backend for an interactive AI-powered recipe suggestion web application on a serverless GPU provider (RunPod)
- Utilized an object detection ML model (YOLOv8) to identify ingredients from an uploaded picture
- Engineered data processing scripts to filter 300, 000 recipes in under 2 seconds