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, University Honors, Dean's List, William J. Branstrom Freshman Prize
- Coursework: Web Systems, Programming Paradigms, Computer Organization, Data Structures & Algorithms, Foundations of Computer Science, Computer Science Pragmatics, Programming & Intro Data Structures, Intro to MATLAB & C++, Discrete Math, Multivariable Calculus, Linear Algebra

SKILLS

Programming Languages: Python, C++, JavaScript, TypeScript, Rust, Bash, Makefile, HTML, CSS, MATLAB, R

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

WORK EXPERIENCE

Tapway   **Selangor, Malaysia**
AI Engineer (MLOps) || Tech Stack: Angular, TypeScript, Python, Docker, AWS   *May 2023 – August 2023*
- Maintained a microservices backend for an object-detection web application including training and auto-labeling pipelines, AWS Amplify and Lambda functions, and ML model libraries
- Integrated a two part post-processing stage 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*
- Devised Flask backend routes that summarize text and video data into a Notion page with Google Gemini 1.5.
- Deployed and configured Python backend on AWS EC2 running Nginx and Gunicorn
- Implemented API integrations with Gemini 1.5, Notion's API, and the ReactJS frontend.

Chat-a-way (MHacks)   **Ann Arbor, MI**
Tech Stack: Python-Django, Docker, HTML, CSS, TypeScript, Sveltekit, Google Cloud   *November 2023*
- Engineered Python modules that generate outing recommendations from conversations with a user
- Built two closely connected LangChain models (user-facing & data-gathering) interfacing with GPT-4
- Integrated web search functions for place recommendations using Google's Text Search API

deTrash (HackOHIO – 2nd place ENGIE Sponsor Challenge)   **Columbus, OH**
Tech Stack: Python, Docker, Flask, AWS, Sveltekit, TypeScript, HTML, CSS, Vercel   *October 2023*
- Designed a Flask API to identify litter from an image, store its geolocation in AWS DynamoDB, and provide recycling suggestions that comply with state laws that are given as a URL
- Containerized backend with Docker and port forwarded with Ngrok
- Deployed a ML model (YOLOv5) for object detection and LangChain (GPT3.5-Turbo) for text generation needs

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*
- Developed a microservices backend for an interactive recipe suggestion web application
- Containerized backend with Docker and deployed on a serverless GPU provider (RunPod)
- Utilized a ML model (YOLOv8) to identify ingredients from an uploaded picture
- Engineered data processing scripts to filter 300, 000 recipes in under 2 seconds