Uzair Bin Colangoy Asim

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Github | LinkedIn

I am an IoT and Machine Learning Engineer at an AI company in Cyberport and studied Machine Learning under Professor Kenneth Wong, with a focus on Computer Vision and Image Manipulation Techniques and have a strong background in data structures and algorithm design. I am currently developing technologies using OpenCV, YOLOv8 and Rockchip NPU to create Low Latency Applications.

Education

The University of Hong Kong
Degree: Bachelors of Engineering. Computer Science
Relevant Courses: Bio-Informatics, Natural Language Processing, Machine Learning, Artificial Intelligence, Robotics, Data Structures.
Awards: HKU Foundation Scholarship

Competency

Programming: C, C++, Cadence, Haskell, Java, JavaScript, Kotlin, MongoDB, MySQL, Python, Rust, Solidity, Typescript
Tools & Techniques: AWS, OpenCV, Boost, Fmt, ReactJs, Streamlit, PyTorch, TensorFlow, SLAM
Operating Systems: Linux Debian/Ubuntu

Relevant Experiences

- **Alpha AI Technology Limited** – Machine Learning Engineer — **Jul 2023 – Present**
  - Took over the existing AI dash camera project and solved issues of device overheating by optimizing the video analysis pipeline.
  - Created an analysis software to detect building defects from thermal image extracted from drone footage.
  - Created an analysis software to detect and sort ocean trash from CCTV footage.

- **Graphite Venture Limited** – AWS Cloud Software Consultant (Independent Contractor) — **Jul 2023 – Sep 2023**
  - Provided continuous support for existing system and consultation on documentations.
    I also wrote new documentation wherever necessary to enable a smooth hiring and training for future employees.
  - Provided consultation on new and existing projects and gave directions on obtaining the most efficient and cost effective solutions.
  - Enabled the company to select the best candidates for their engineering department by aiding in their hiring process.

- **Graphite Venture Limited** – IoT Engineer & AWS Cloud Engineer — **Jan 2023 – Jul 2023**
  - Responsible for creating the data structure of MQTT messages to reduce data loss and increase reliability throughout the company.
  - Spearheaded the development of algorithms to improve computation times and reduce company's AWS Lambda expenses by 5%.
  - Created NodeJs + AWS Rekognition Back-End and ReactJs Front-End systems to stream multiple IoT camera to machine learning models for real-time analysis, providing farms and other clients with a security system to deter invasive boars.

- **Pons AI Limited** – Blockchain & Smart Contract Intern — **May 2022 – Aug 2022**
  - Expanded the company's customer base by creating an NFT market place in Polygon and Ethereum Blockchain, parallel to their existing Flow NFT market place.
  - Allowed the company to trade their NFT on OpenSea by implementing a Flow-Polygon bridge to allow cross blockchain transactions.
  - Diversified the company's investment structure base by rewriting the existing contracts to allow transactions of FUSD stable coins alongside the existing FlowToken coins.

Leadership

HKUSU Computer Society – Chairman
HKU Blockchain Society – Head of Technology
Student Teaching Assistant – HKU COMP3362 – Hands on AI

Awards

- Hong Kong Chiu Chow Chamber of Commerce Rayson Huang Memorial Student Enrichment Award 2019-20
- Tam Wun Tsun HKU Horizons Student Enrichment Award 2018-2019