KWOK HUNG JOHN HO

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EDUCATION

UC San Diego (BS/MS Program)

M.S Candidate in Intelligent Systems, Robotics & Controls

Expected: Jun 2023 — La Jolla, CA

B.S in Electrical Engineering — Machine Learning & Controls

Graduated: Jun 2021 — La Jolla, CA

WORK EXPERIENCE

Application Technology Limited

Jun 2021 to Sep 2021

AI Specialist Trainee

- Quantized and converted Tensorflow models into TFlite models for deployment in edge TPU cameras.
- Implemented deep sort tracking and fall detection YOLO models running on NVIDIA Jetson Xavier.
- \bullet Used transfer learning with PyTorch to train a face detection + mask classification model with 91% precision and 89% recall.
- Delivered a working suitcase detection model and anti smuggling detection algorithm to be deployed at the Hong Kong International Airport using a multi-object tracking model with Docker and Python.

Risksis Technology Limited

Mar 2021 to Jun 2021

AI and Web Engineer

- Performed OCR and Evaluated the performance of NLP Transformers models such as BERT and XLM-RoBERTa on PDFs about incidents that occurred in the Hong Kong subway system.
- Delivered a queryable full stack web project using Vue.js and ASP.NET backend with MongoDB and Elastic Search.

ASTRI - Science Park, Hong Kong

Jun 2019 to Sept 2019

Software Engineer Intern

- Developed an augmented reality UWP application for the Microsoft HoloLens with Unity (C#) and ROS which allows the user to spawn objects via gestures at the location of AR tags.
- Utilized WebSocket protocol for communication between ROS and HoloLens.

PROJECTS

Cryptotrackerr.tk

Created and hosted a website that allows users to track cryptocurrencies. Used MERN stack and hosted the website on an AWS EC2 instance.

Polar Coffee

Developed IoT features using a Raspberry Pi for a Smart Iced Coffee Machine. Created a website with Django that tracks user data and allows remote control of the machine through REST API and MQTT protocol.

ADDITIONAL EXPERIENCE

MRI/CT-compatible Robots Lab

Lab researcher focusing on lung segmentation and needle tracking in CT and MR images.

Triton Unmanned Aerial Systems (Triton UAS)

A UCSD org dedicated to aerial drones. Part of embedded (antenna tracker) and software (backend) team.

SKILLS

Programming: Python, Java, C/C++, C#, LabVIEW, Go

Coursework: Reinforcement Learning, Image Processing, Statistical Learning

Web Development: MERN stack, Vue, Svelte, MySQL

Software & Tools: Git, Linux, Docker, ROS, LATEX, PyTorch, TensorFlow, OpenCV