

KEVIN PRATAMA

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EDUCATION

Hong Kong University of Science and Technology (HKUST)

Clearwater Bay, Hong Kong

Bachelor of Computer Science, Minor in Big Data Technology and Robotics

Sep 2016 - Exp. Jun 2020

- Achieved Reaching Out Award Scholarship for achieving 1st place in Robocon Hong Kong 2017
- Achieved Talent Development Scholarship for participating ABU Robocon 2017 in Tokyo, Japan

University of Waterloo

Waterloo, Canada

Bachelor in Computer Science, Minor in Big Data Technology and Robotics

Sep 2018 - Dec 2018

- Study Abroad program for Fall Term 2018
- Currently taking courses in Machine Learning, Artificial Intelligence, and Computer Networks

EXPERIENCE

Narwhal ROV

Hong Kong

Head of Software Engineer

Jan 2017 - May 2018

- Led the software division in developing image processing, underwater acoustic signal, controls and user interface, as well as integrating the whole robotics system.
- Enhanced aircraft tail recognition accuracy using color quantization and underwater image restoration in OpenCV and ROS.
- Achieved 1st place in Robocon Hong Kong 2017 and MATE ROV Competition Hong Kong 2018.
- Achieved 4th place in MATE ROV International Competition 2018.

Sightecho

Hong Kong

Summer Research Intern

Jun 2018 - Aug 2018

- Helped the startup achieve 1st place in CoCoon Pitch Night.
- Prepared the prototype's core firmware for TechCrunch Disrupt San Francisco 2018.
- Developed firmware for underwater diving goggles with LCD, pressure sensor, SD Card.
- Implemented wireless firmware updater on the embedded side and Android application.

PROJECTS

Reproducibility for Traditional and Heavy Tailed Self Regularization Neural Network

Waterloo, Canada

Implementer - ICLR 2019 Reproducibility Challenge

Oct 2018 - Now

- Currently implementing the reproducible code of the paper for ICLR 2019 Reproducibility Challenge in PyTorch.

Fashism

Hong Kong

2nd Runner Up - Big Datathon 2017

Dec 2017

- Implemented RCNN-based fashion trend prediction algorithm in Caffe.
- Designed front-end website to display fashion trends in React.

Code Here

Human Computer Interaction Projects

Sep 2017 - Dec 2017

HueDash and Automatic Food Cashier System

Code Here

- Designed HueDash, an automatic, integrated room lighting using Raspberry Pi and Phillips Hue
- Developed automatic food cashier system with speech and gesture recognition on NAO Robot.

UberKraft

Hong Kong

Finalist - HackUST 2017

April 2017

- Devised airport waiting time prediction algorithm to match with Uber booking schedules in Tensorflow.

Potify

Sep 2017 - Dec 2017

Smart Plant Watering System

Code Here

- Made a software to water plant based on plant conditions
- Implemented the plant condition prediction using soil moisture, temperature and light sensor, written in C and STM32.

Undergraduate Research Opportunities Program (UROP)

Jun 2017 - Jul 2017

Researcher - Smart Home with Motion Gestures

- Improved Doppler effect-based motion gesture interaction to adjust Phillips Hue lighting (hue, brightness, saturation).

Search Engine

Hong Kong

Course Group Project

Feb 2018 - May 2018

- Deployed a search engine feature for university webpages, written in Go.
- Used BoltDB database for keywords storing in Go.

SKILLS

Robotics C/C++, ROS (Robot Operating System), STM32, OpenCV

Data Science Python, Scikit-learn, Tensorflow, CUDA, PyTorch, Keras

Other Git, Linux, Go, Web Development (Vue, React, Laravel)

Languages English, Indonesian