Kevin Pratama

Software Engineer

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Education

HKUST (Hong Kong University of Science and Technology)

Clearwater Bay, Hong Kong

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

September 2016 - Exp. June 2020

- Achieved Reaching Out Award Scholarship for achieving 1st place in Robocon 2017 Hong Kong
- 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

September - December 2018

- 3rd Year Exchange Student, majoring in Computer Science

Experience

HKUST Robotics Team

Hong Kong

Software Engineer, Head of Software Engineer

January 2017 - May 2018

- Head of Software Engineer in HKUST ROV 2018 Sub-Team
- Gained expertise in STM32, C/C++, ROS, OpenCV, IoT (Raspberry Pi)
- Developed image recognition software using OpenCV within ROS
- Achieved 1st Place in ABU Robocon Hong Kong 2017
- Achieved 1st Place in MATE ROV Competition Hong Kong 2018
- Achieved 4th Place in MATE ROV International Competition 2018

SightEcho

Hong Kong

Summer Research Intern

June - August 2018

- Developed firmware for underwater diving goggles with LCD, pressure sensor, SD Card.
- Implemented wireless firmware updater on the embedded side and Android application.

Radica Big Datathon

Hong Kong

Fashism - 2nd Runner Up

December 2017

- Implemented algorithm to recognize fashion trends by pop stars using Caffe.
- Developed front-end website to display fashion trends using React.

HackUST 2017

Hong Kong

UberKraft - Finalist

April 2017

- Hands-on basic knowledge in scikit-learn, Tensorflow, CUDA

NASA SpaceApps Hackathon 2018

Waterloo, Canada

Crawler Bot - 5th Place

October 2018

- Developed an idea to do a survey check on spacecrafts using gecko-like bots and robotic arms.
- Built a robot simulation in ROS Gazebo and Blender 3D.

Projects

Reproducibility for Traditional and Heavy Tailed Self Regularization in Neural Network Models.

Waterloo, Canada

Implementer

October 2018 - Now

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

Undergraduate Research Opportunities Program (UROP)

Hong Kong

Researcher

June - July 2017

- Improved gesture-based interaction system that uses Doppler effect on Welle device.
- Developed gestures to set Phillips Hue lighting (hue, brightness, saturation)

Skills

Programming C/C++, Python, Go, Java

Robotics ROS (Robot Operating System), STM32, OpenCV

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

Languages English, Indonesian