

Kevin Yiu-Wah Cheung

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EDUCATION

UNIVERSITY AT BUFFALO Computer Engineering (GPA: 3.75 / 4) 2015-present
Expect to graduate on May 2019

S.H.K. Holy Trinity Church Secondary School 2009-2015

Courses: Machine Learning, Computer Vision and Image Processing, Microprocessor, Deep Learning, Digital System, Real Time Embedded System, Computer Organization, Linear Algebra, Data Structure, Data Analysis

Programming Language: Python, MySQL, PostgreSQL, Tableau, Numpy, Pandas, Scikit-learn, Keras, C++, C, Java, HTML5

Engineering Experiences

Undergraduate Research Project under supervision of Professor Wen Yao Xu 2018 Fall- present
Foot Analysis using smartphone camera
Use machine learning to detect bunion and make customized insole

Machine Learning Handwritten digits recognition 2018 Summer
Implement Softmax Regression and use Deep Neural Network, SVM and Random Forest
Combine all models into Ensemble classifier and make prediction by majority vote

Python Data Analysis and Visualization Capstone Project (Udemy) 2018 Summer
Analyzing 911 calls data from Kaggle
Involves NumPy, Pandas, Matplotlib and Seaborn

Arm 7 Assembly Programming Project 2018 Spring
Space Invader coded in all assembly language
Includes Fast/Normal Interrupts and Timer

3D Printer Reverse Engineering Project 2017 Fall
Restored a broken da Vinci 1.0 AiO 3D Printer
Cleaned Nozzle, recalibrated the heating bed and testings

Embedded System Kernel Project 2017 Fall
XINU semaphores for synchronization and mutual exclusion
Chat program using UART serial connection and simple shell command
Study Embedded XINU Directory Structure

Master Labyrinth Board Game Team Project (Java) 2016 Spring
A board game which allows 4 people to play at the same time

Other Experiences

Graphic Designer of HKSA 2016 Fall – 2017 Spring
flyers and videos for the club using Photoshop and Premiere Pro

Event Coordinator of HKSA 2015 Fall – 2016 Spring
Help organizing events and introduce the club to others

Math Tutor in Hong Kong 2015-2019
Helped students to solve problems and explains concepts to them