
EDUCATION

- **Hong Kong University of Science and Technology (HKUST)** Kowloon, Hong Kong
BEng in Computer Engineering; GPA: 3.5/4.0 June, 2019
 - **Relavant Coursework:** Embedded System, Internet Computing, OOP & Data Structure, Unix & Script Programming, Design & Analysis of Algorithm, Principles of OS, High Performance Computing
- **Vanderbilt University** Nashville, TN
Semester Exchange; GPA: 3.83/4.0 Spring, 2018

WORK EXPERIENCE

- **AIVAS Lab, Vanderbilt University** Nashville, TN
Research Assistant Jan 2018 - July 2018
 - **Toybox:** Created video recording dataset for small sample learning and hand-object interaction with categories from early-learned nouns of infants. Played significant role in data analysis and using dataset on DCNN. Co-authored paper for VMC Workshop from CVPR 2018. Project Link: aivaslab.github.io/toybox
 - **Block Design:** Used OpenCV and computer vision techniques to analyze Block Design Task (morphological and color based analysis) and to gain insights from Human Cognitive Behaviors
 - **Tech Stack:** TensorFlow for using DCNN, OpenCV & FFmpeg for Computer Vision Task, and Scikit-learn & Seaborn for data visualization
- **HKUST ECE Department** Kowloon, Hong Kong
Part-time Student Programmer Sep 2017 - Dec 2018
 - **Front-end:** Developed front-end of circuit simulation website, www.i-mos.org, using Vue.js and Snap.svg
 - **Prodocation Deployment:** Identified bugs and UI improvement of websites for production deployment.
- **Versitech Limited** Cyberport, Hong Kong
Software Engineering Summer Intern June 2017 - Aug 2017
 - **Data Query:** Effectively used PHP and SQL Server to query data to create a web reporting system. Utilized existing schema and constructed new schemas with raw data imported from MS Access/Excel.
 - **CMS:** Developed a CMS that contains all CRUD features to handle multiple databases through JQuery DataTable. Developed efficient system to minimize human errors from data entry work and to automate the entry process.
 - **Tech Stack:** PHP and SQL Server for back-end and DB handling. Bootstrap and JQuery plugins for front-end development.

AWARD

- **Champion of CodeIT Suisse Coding Challenge** September, 2017
Credit Suisse, APAC Region
 - **Highest score in APAC:** Won 1st place by solving algorithm questions such as DP, Graph, and AI.
 - **Tech Stack:** Used Node.js and Express to set up pipeline and HTTP request to send answers through Heroku
- **Dean's List** Spring 2017
School of Engineering, HKUST

PROJECTS

- **Meteorology Prediction:** Developed a system for weather prediction in Greater China Region using ML techniques such as Encoder-Decoder and CNN. Utilized weather dataset from SZMB & HKO to participate in 2018 ICDM Data Challenge
- **Exchange Matching System:** Improved decision making of choosing different host institutions offered by HKUST Exchange Program for students by developing exchange matching website for COMP 2021 course.

SKILLS/LANGUAGE

- **Programming Languages:** Python, Java, C++, Javascript, SQL
- **Framework/Library:** OpenCV, TensorFlow, Scikit-learn, Node.js
- **Languages:** Korean, English (TOEFL 115), Mandarin (HSK Level 5)