

SEAN CHA (SEUNGHWAN)

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Education

HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Clear Water Bay, Kowloon

BEng in Computer Engineering & Minor in Actuarial Mathematics – GPA: 3.5/4.0

June 2019

- ✓ Relevant Coursework: Embedded System, Internet Computing, OOP & Data Structure, Unix & Script Programming, Design & Analysis of Algorithm, Principles of OS, High Performance Computing, Probabilities & Statistics, Intro to Actuarial Mathematics

VANDERBILT UNIVERSITY [SEMSTER EXCHANGE]

Nashville, U.S.A

Work Experience

HKUST ECE DEPARTMENT (i-MOS project), Part-time Student Programmer

September – December 2017

- ✓ Developed front-end of circuit simulation website, www.i-mos.org, using Vue.js and JS libraries such as Snap.svg.
- ✓ Identified bugs and UI improvement of websites for production deployment in future.

VERSITECH LIMITED, Software Engineering Summer Intern

June – August 2017

- ✓ 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.
- ✓ Developed a CMS that is directly connected to SQL Server and contains all CRUD features to handle multiple databases through HTML table format. Developed efficient system to minimize human errors from data entry work and to automate the entry process.
- ✓ Technology Stack: PHP and SQL Server for back-end and DB handling. Bootstrap and JQuery plugins for front-end development.

UNITED NATION INTERIM FORCES IN LEBANON, Assistant in HR/Logistics Department December 2015 – August 2016

- ✓ Cooperated with other multinational battalions for arranging formal ceremonies and personnel management. Helped arrange military inspection for the visit of former UN Secretary General, Ban Ki-Moon.
- ✓ Conducted hundred-thousand dollars' worth of construction bidding. Successfully concluded several large-scale contracts related to logistics of the battalion.

Awards

Champion of CodeIT Suisse Coding Challenge

September, 2017

Credit Suisse, APAC Region

- ✓ Won 1st place by solving algorithm questions provided by Credit Suisse Technology Team. (highest score in APAC)
- ✓ Used Node.js and Express to set up the system and HTTP POST request to send answers through Heroku

Dean's List

Spring, 2017

School of Engineering, HKUST

Projects

Machine Learning on Block Design, AIVAS Lab

Spring, 2018

- ✓ Used OpenCV and computer vision techniques to analyze the Block Design Task (morphological and color based analysis)
- ✓ Used Supervised Learning algorithms such a KNN, HOG features using TensorFlow/MATLAB to automate the annotation of the visual data to extract meaningful data from video of Block Design Test subjects.

Exchange Matching System

Spring, 2017

- ✓ Improved decision making of choosing different host institutions offered by HKUST Exchange Program for students by developing exchange matching website for COMP 2021 course.
- ✓ Technology Stack: Bootstrap for frontend, PHP/MySQL for backend and DB, Perl to crawl data from web.

Skills/Languages

Programming Language: Java, C/C++, JavaScript, Python, PHP, SQL

Framework/Library: TensorFlow, OpenCV, React, Node.js

Language: Korean, English (TOEFL 115), Mandarin (HSK Level 5)