Hoang C **Vu**

Computing · Undergraduate Student

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Education

Imperial College London
London, The UK

M.Eng. IN COMPUTING
Oct 2019 - Exp. Aug. 2023

- Introduction to Computer Systems, Architecture and Databases
- Discrete and Continuous Mathematics
- Graphs and Algorithms

Concord College
Shrewsbury, The UK

Advanced GCE Level
Sep 2017 - July 2019

- A*A*A*A* in Maths, Further Maths, Chemistry and Physics A Level
- Grade 2 in Sixth Term Examination Paper 1 (STEP 1) taken in first year of A Level
- Principal Award for Highest Overall Result in AS Level with an UMS of 99.6
- Principal Award for one of 17 students in Concord College with 4A* or more in A Level
- Second Place in Midlands Regional Heat Round for Analyst Competition (Chemistry Practical Competition)

Projects

Neural Networks and Deep Learning
Coursera

Online Course by Andrew Ng
Summer 2018

- Introduction to Machine Learning, Supervised Learning, Deep Learning and supporting Mathematical Theory
- Successful completion of a step-by-step guide on building a Convolutional Neural Network
- Deployed a program to classify images of different animals with variable number of hidden layers, obtaining an accuracy of over 80% for 5 hidden layers

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Outing
February 2020

- Successfully built a website for organising social events for specifically small groups of friends
- Overcame a huge challenge of incorporating some of Google APIs into our system in under 24 hours
- Built a fully interactive website from scratch including built-in chat window with Google NLP APIs to recognise payment, directions and location information.

Arm11 Emulator

End of first year project
April 2020 - Present

- Working on a group project to emulate an ARM1176JZF-S processor using C
- Mainly responsible for the handling of binary files, translation of assembler files into binary and management of the execution pipeline
- Partially responsible for analysing the programs using profiler and valgrind to improve performance of the system

Skills & Achievements

Skills
Self-learn

Softwares & Programming
Ongoing

- First Year Programming Module: C, Haskell, Java, SQL, x86-64 Assembler, MIPS Architecture
- Web development: ReactJS, JavaScript, HTML5
- Platform: Unix/Linux, Windows
- Others: Python, Google Cloud Platform *(Minimal Experience)*

Extra-Curricular Activities
Vietnam

Non-Academic Achievements
Sep 2015 - June 2016

- Accomplished the Duke of Edinburgh Bronze and Silver Award
- Volunteered as a Teaching Assistant for RES (English centre)
- Operation Smile Volunteer on a 4-day mission to provide dental checks and surgeries for children with cleft palate in rural areas
- Participated in all sporting events in International School Leagues in Hanoi