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)

Self-Learn 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

Project Euler and LeetCode   *Online Challenge*

MATHS AND PROGRAMMING CHALLENGES   *June 2017 - PRESENT*

- Solving mathematical and computational problems by designing and implement efficient algorithms
- Completion of over 30 problems with difficulties ranging from Easy to Hard
- Favourite solved problems include: finding last 10 digits of $28433 * 2^{7830457} + 1$; first Fibonacci number to contain 1000 digits, *Perfect Square collection*; find the median of the two sorted arrays of length m and n, within $O(\log(m + n))$.

Skills & Achievements

Skills   *Self-learn*

SOFTWARES & PROGRAMMING   *Ongoing*

- Programming Languages: Python, C++, First Year Programming Module: C, Haskell, Java
- Text Editor: LaTeX, MS Office
- Platform: Unix/Linux, Windows
- Others: PostgreSQL, Google Cloud Platform (*(Minimal Experience)*

North East Asia Maths Competition (NEAMC Team Challenge)   *Tokyo, Japan*

2ND PLACE IN THE BUDDY CHALLENGE   *May 2016*

- Contributed hugely to the success of BVIS's first entry to the competition
- Led one of the training sessions for the school competitions for the following year

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