

South Kensington, London SW7 2AZ, UK

□ (+44) 7835 039-287 | Scong.vu19@imperial.ac.uk | Ahoangvu01.github.io | Dhoangvu01 | Dhoangvu01 | Choangvu01 | Noangvu01 |

Education

Imperial College London

London, UK

M.Eng. in Computing

Oct 2019 - Exp. Aug. 2023

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

Concord College Shrewsbury, UK

ADVANCED GCE LEVEL Sep 2017 - July 2019

- A*A*A* in Maths, Further Maths, Chemistry and Physics A Level, Grade 2 in STEP 1 taken in first year of A Level
- Principal Award for Highest Overall Result in AS Level with an UMS of 99.6
- · Second Place in Midlands Regional Heat Round for Analyst Competition (Chemistry Practical Competition)

Work Experience _____

Arabesque Al London, UK

SOFTWARE ENGINEER INTERN

July 2020 - September 2020

- · Led the integration of concepts of observability into legacy and new systems through the use of telemetry data
- Directly involved in redesigning and rewriting ETL pipelines to optimise cost to performance ratio by employing serverless architecture using mostly Cloud Run and Cloud Function services to replace high frequency Kubernetes cron job
- One of the main developers for transforming current system into Infrastructure as Code (IaC) and Continuous Integration/Continuous Deployment (CI/CD) for several components of the system with Google Deployment Manager (DM) and GitHub actions
- Responsible for delivering monitoring and alerts knowledge and best practices to the rest of the team
- Exposure to Machine Learning in Finance, specifically incorporating Artificial Intelligence into predicting stock market movement and portfolio customisation
- Involved with designing and managing security access for through both enforcing the use of **DM** and the use of service accounts appropriately

Projects_____

Hackathon ICHack20

OUTING February 2020

- Successfully built a website for organising social events for specifically small groups of friends
- · Overcame a huge challenge of writing a fully functional website from scratch and integrated with some of Google's most popular APIs
- 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 and Assembler & Extension

London, UK

END OF FIRST YEAR C-PROJECT

April 2020 - June 2020

- Worked on a group project to emulate an ARM1176JZF-S processor using C
- · Responsible for researching and writing abstract data structures to best optimise performances of different components of the system
- Directly involved with the design of the game (called **Tetris Plus Plus**) including game logic and execution flow as well as mainly responsible for writing the interface for the game using **ncurses** library
- Built an Reinforcement Learning bot as an extension to Tetris Plus Plus using Q-Learning and integrated into 'Head2Head mode'
- Awarded the Best Overall C Project by the Imperial Department of Computing

Ski**lls**

Tools Self-learn

SOFTWARZES & PROGRAMMING Ongoing

- Languages: C, Haskell, Java, Python, SQL, x86-64 Assembler
- Web development: ReactJS, JavaScript, HTML5, DeckGL
- Cloud Computing: Google Cloud Platform, Micro-services serverless architecture, Kubernestes (minimal experience), Infrastructure as Code using Deployment Manager and Github Actions
- Others: OpenTelemetry, Jaeger, OpenZipkin, Prometheus