

TIGER CROSS

2nd Year Computing Student

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EDUCATION

Imperial College London

Computing

September 2017 - June 2020 (expected)

- Achieved 1st class honours in the first year of study.
- Attended ICHack18 and took part in Google Hash Code. Also like to take part in kaggle competitions in spare time.
- Currently working as an Undergraduate Teaching Assistant with the Department of Computing.

East Norfolk 6th Form College

September 2015 - June 2017

- A-Levels: Mathematics (A*) Further Maths (A*) Chemistry (A*) Physics (A)
- Cambridge Admissions test STEP II (Grade 3)
- Nuffield Research Placement in Computational Chemistry at UEA.

PROJECTS AND TECHNICAL SKILLS

Lighten Up, World

Data Visualisation

June 2018 – Ongoing

- Lead a team of 4 in building a world map out of 471 LEDs and displaying real time data on the LEDs such as weather data or twitter usage.
- Wrote a Web application in React to control the data displayed on the map.
- Code for displaying and obtaining data from APIs written in C and Python.

ARM11 Assembler/Emulator

Computer Architecture

May 2018 – June 2018

- Led a team of 4 writing this project in C.
- Assembler takes assembly instructions in the ARM11 instruction set and converts them into machine code.
- Emulator takes binary machine code and executes the associated operations.

AI and ML Research Project

Research

Jan 2018

- Assumed role of team leader, researching how AI can be used to speed up the diagnosis and analysis of brain tumours.
- Responsible for reading approximately 10 different papers on neural networks.
- Created an educational website containing the collated research of the team.

Smaller Projects

Misc.

- Created a Macroprocessor, RSA Encryption Tool, and Turtle Interpreter in Haskell.
- Completed over 20 Java projects, with experience in concurrency and creating my own data structures.

CURRENT WORK



Operating Systems Engineering
working on an OS project involving concurrency and thread manipulation.



Application Development
Having Built a React Webapp, I'm now looking into mobile app development for Android in Flutter.



Data Science
Learning Python to help me with various kaggle competitions.



Tutoring
Tutor High school children Javascript as I am eager to spread knowledge and inspire the next generation about computing

STRENGTHS SKILLS

Hard-working

Enthusiastic

Persuasive

Motivator & Leader

Quick and Independent learner

Data Structures

Concurrency

UI Design

Neural Networks

PROGRAMMING LANGUAGES

The following languages are known to a high proficiency:

Java, C, C++, HTML, Javascript, CSS, Python, Haskell, SQL

EXTRA-CURRICULAR ACTIVITIES

- Enjoy taking part in Hackathons and other programming events.
- Member of Machine Learning Society and attend regular events.
- Member of Finance Society and attend finance talks.
- Ice Hockey
- Basketball