

TIGER CROSS

3rd Year Computing Student

@ tiger.cross17@imperial.ac.uk

+44 (0) 7761076437

EDUCATION

Imperial College London **Computing MEng**

September 2017 - June 2021 (expected)

- Achieved 1st class honours in both years of study.
- Won second Year WebApps group project prize.
- Worked as an Undergraduate Teaching Assistant with the Department of Computing.

WORK

Morgan Stanley **Algorithmic Trading Intern**

June 2019 - August 2019

- Developed two low-latency trading engines for Saudi Arabia and A2X exchanges in C++.
- Refactored further trading engines, maximizing code clarity, efficiency, and brevity.
- Coordinated with a global team to ensure that deadlines were met.

SSC Analytics **Co-Founder**

October 2018 - Present

- Co-Founded a data analytics start-up in the education sector.
- Ran a business and planned the architecture of the tech stack for a product.

PROJECTS

Mobilise **Web Engineering**

May 2019 - Present

- Developed an application for a charity - City Harvest London.
- Visited the charity on a weekly basis, using human centered design principles to tailor the application features to suit the client.
- Developed major features for the application in React and Javascript and pioneered work on law and security considerations.

Lighten Up, World **Data Visualisation**

June 2018 - January 2019

- Led 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.
- Created an API in C and Python for displaying and obtaining data from other APIs.

TrueBlock **Blockchain**

January 2019

- Won IC Hack 19, the UK's largest student run hackathon, selected from over 70 projects submitted .
- Created an Android App that uploads image data to the Ethereum Blockchain.
- Wrote a web application in Javascript to verify the integrity of uploaded images by searching the Blockchain.

Additional Projects

- Pintos - Engineered an Operating System by implementing a thread scheduler, system calls and virtual memory.
- WACC - Designed a compiler, for a language called WACC, in Kotlin, with extended features such as automatic reference counting.
- AI & ML Research Project - Documented and presented the findings from various papers on the best way to use artificial intelligence to detect and classify brain tumours.

PROGRAMMING LANGUAGES

Proficient in:

- Java, C++, C, Javascript

Competent in:

- Haskell, Python, SQL

Additional Skills:

- Version Control (Git), DevOps (CircleCI, Jenkins)

EXTRA-CURRICULAR ACTIVITIES

- Helped to raise £80,000 as Sponsors' Liaison for Imperial Department of Computing Society.
- Member of Machine Learning Society and attend regular events.
- Member of Finance Society and attend finance talks.
- Basketball and Ice Hockey.