MICHAEL CLASBY

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EDUCATION

Imperial College London - MEng Mathematics and Computer Science   2019 – 2023

- First Year Overall **76.31%** | Programming Average **84.3%**
- Active member of Investment Society
- Interesting Courses: **Concurrency**, **Data Structures**, **Algorithms, Operating Systems**

Havant & South Downs College – [180 UCAS Points]   2017 – 2019

- A-Level Mathematics, Further Mathematics, Computer Science, Physics
- AEA Mathematics | **A* A* A* A* + Merit**

Park Community School - GCSEs 5A*, 7A, 1B   2012 – 2017

PROJECTS & WORK EXPERIENCE

C Final Group Project – Arm11 Assembler/Emulator + Editor/Debugger   June 2020

- Led a team of 4 to create an assembler and emulator for an instruction subset of an Arm11 processor in **C** and then presented our work to the class
- Extended the project with a text editor and debugger to create a full assembly development suite. (**A* Grade – Most Helpful Student Individual Prize + Best Group Reflection Award)**
- Rigorously tested our implementation and profiled it to optimize efficiency of execution

ICHACK2020 – Natural Deduction Scanner and Verification App   Feb 2020

- Worked in a team of 5 to produce an **Android app** (in 24 hours) which can scan a natural deduction stylized proof using our own **TensorFlow** machine learning model and verify correctness
- Created a learning game with tutorial levels and error identification to teach new students logic
- Responsible for creating the app front-end following the material theme in Android Studio and integrating all the backend components (scanning, **OCR**, verification) together in **Kotlin**

Connect4Summer – Data Analyst   Summer 2019

- Helped secure £1m in another round of government funding for Summer 2020 by recording and analyzing data of 40,000 data points across 20 venues

A-Level Coursework Project – Dog Grooming Shop Data System   2018 – 2019

- Independently wrote a graphical booking system with sales record and calculation tools for a real client. Used a **multi-relational database** and queried it to generate complex sales reports
- Produced a comprehensive written report showing the iterative design process involved

SKILLS

- Proficient in **Java, Python, C**
- Competent in **Haskell, JavaScript**
- Great understanding of **Git version control**
- Experience using/writing **Makefiles**
- Comfortable with **Linux** operating system
- Building knowledge of **web development**

EXTRA-CURRICULAR

- Competitive Programing (Google Kickstart, GSA Ultra 2020 – Top 15%, IMC 32BIDS)
- 1 of 80 Facebook UK & Ireland Hack 2020 participants
- Private Tutoring python to school children
- Learning Italian