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%**
- Relevant Courses: **Concurrency, Network Science, Statistical Modeling, Linear Algebra**

Havant & South Downs College – [180 UCAS Points] 2017 – 2019
- A-Level Mathematics, Further Mathematics, Computer Science, Physics
- AEA Mathematics | **A* A* A* A* + Merit**

PROJECTS & WORK EXPERIENCE

Cisco – Software Engineer Intern (Incoming) Summer 2021

PintOS – Operating System Group Project Autumn 2020
- Implemented under tight deadlines, multiple scheduler types as well as functionality for user programs in **pintos**, a large **C** code base for an educational operating system (**First-class grade**)

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
- Collaborated in a team of 5 to produce an **Android app** (in 24 hours) to 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 the front-end in **Android Studio** and integrating all the backend components (scanning, **OCR**, verification) together in **Java** and **Kotlin**

Freelance Work – Data Engineer (Multiple Clients) Summer 2019 - Present
- 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 (**Connect4Summer** initiative)
- Built a fast autocompletion system for a 4GB database utilizing **Google Cloud Compute**
- Used **web scraping** and API's in **python** to gather, compile and analyze data from various sources.
- Use of libraries such as **pandas, matplotlib, beautifulsoup, scipy, network** and **Jupyter**

SKILLS

- Proficient in **Java, Python, C**
- Experience in **Kotlin, Haskell, Java Script**
- Great understanding of **Git version control**
- Experience with **CI/CD** and auto-testing with **Docker, Maven**
- Comfortable with **Linux** operating system

EXTRA-CURRICULAR

- Competitive Programing (Google Kickstart, GSA Ultra 2020 – Top 15%, 1 of 80 Facebook UK & Ireland Hack 2020 participants)
- Learning Italian
- Active member of **Investment Society**
- Completing **Securities Education Certificate**