Alexander Mitchiner

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EDUCATION

Imperial College London
MEng Computer Science — *Oct 2023 – Current*

The Charter School North Dulwich
Maths, Further Maths, Computer Science, History - A*A*A*A — *Oct 2021 – June 2023*

EXPERIENCE

Software Engineer — June 2023 – July 2023
Equal Experts — *London*
- Developed a website and API to interact with an internal Neo4j database
- Worked primarily in React.js for the frontend and Java for the backend

Data Science Intern — Oct. 2023
Freemavens — *London*
- Built a Trends tool in Python to aid analysts in market research
- Tool focused on pulling data from keywordtool.io and Google Trends

PROJECTS

ARMv8 Emulator | *C* — May 2024 – Jun 2024
- A group project building an emulator and assembler for the ARMv7 architecture used in a Raspberry Pi
- Allowed the testing of Raspberry Pi software before being implemented into the hardware itself

StudyReal. | *Kotlin, Android, Firebase* — February 2024
- Developed an Android App to encourage work through sharing studying data with friends
- Used Firebase to manage user data
- Placed 2nd in the Kotlin Category for ICHack 24

VSim | *C#, Microsoft WPF* — Sep 2022 – Apr 2023
- Simulated the spread of a virus on a global scale using mathematics and randomness
- Spread defined by user-based parameters and displayed on a dynamic map of the globe
- Developed as part of the Computer Science A-Level NEA, scoring 62/70

TECHNICAL SKILLS

Languages: Java, Kotlin, Python, JavaScript, HTML/CSS, C#, Haskell, C, C++, SQL
Frameworks: React, Node.js, Flask, JUnit
Developer Tools: Git, Docker, VS Code, Visual Studio, IntelliJ, Vim
Support Skills: PC repair, Windows/Linux/MacOS, Microsoft Suite

THEORETICAL KNOWLEDGE

Databases: Extensive knowledge on Database Design and Implementation
Architecture and Systems: Experience in Assembly and Computer Hardware and Desgin
Networks: Understanding of IoT and common protocols such as HTTPS, TCP/IP, POP and IMAP

MISCELLANEOUS

Volunteering - Young Leader in Scouting
- Experience in organisation and managing large groups of children (DBS verified)
- Camping, Navigation and General Outdoor Skills

Physical - Imperial Medics Boat Club
- Hobbyist Rower, participating in frequent water sessions on the Thames