Khalid Aleem

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EDUCATION

ÉCOLE NORI	MALE SUPÉRIEURE DE LYON	
2021—2022	Physics (M1) — admitted by Ampere Scholarship	
Trinity College, University of Cambridge		
2020—2021	Computer Science (MEng, M2 eqv.) — Distinction	
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2017—2020	Natural Sciences, Physics (BA) — Class I, 4.0 GPA	
Queensmead School, South Ruislip — 6+ A-Levels, 10 GCSEs		
	A2 Mathematics x 3, Chemistry, Physics, History	5 A* & A
1	AS Computer Science, EPQ (OpenGL Physics Simulations)	2 A
2010-2015	GCSEs, including Mathematics & English	8 A* & 2 A

Experience

Research Assistant, Compliant & Accountable Systems Group — PROJECT UNDER DR JAT. SINGH — (JULY-AUGUST 2019)

- Significantly improved a IoT networking library consisting of over 20,000 lines of code. Gained debugging experience (GDB), fixing numerous race conditions, memory leaks and seg. faults. Developed a good understanding of IPC and TCP networking with linux sockets.
- **C** https://qithub.com/Skydive/ComFlux-Middleware/

2010—2015 | GCSEs, including Mathematics & English

Full Stack Developer, Trinity College Science Society — (2019+)

- Contracted to create an editable website from scratch, implementing the $WAA \rightarrow WLS$ protocol & RSA signature verification for university account authentication. Built with a custom async build tool, written in Rust, and making use of docker for testing and deployment.
- RUST/DOCKER/JS/PHP/SQL https://github.com/Skydive/tcss/

Treasurer, Cambridge University Physics Society — (2019—2020)

• Responsible for hosting weekly talks with distinguished speakers from the physics community and managing over 10~000~GBP of society funding from various sponsors. Created the society website: http://camphysoc.co.uk/

Programming Skillset

- Proficient: C++, C, Python (Numpy/Numba), JS, PHP, SQL
- Intermediate: Rust, Java, Bash, GNU Make, Bluespec Verilog, AWS, Docker

Other

- Languages: English (native), French (working proficiency), German (beginner)
- Hobbies: gnu+linux, badminton, fencing, jogging