

Muhammad Faran Sarwar

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PERSONAL BIO

A recent Astrophysics graduate, with a passion for self-learning and goal oriented. I became interested in coding from the numerous coding tasks undertaken during my time at University, in particular using python to create a 3D simulation of solar systems. Also using Java to make Spring Boot applications for my projects has inspired me to learn more and become a Software developer.

EDUCATION & EXISTING TECHNICAL SKILLS

University of Cambridge MSci / BA Astrophysics *Sep 2019 - Jun 2023*

Achieved grade: Upper Second-Class

Relevant Coursework/Modules:

- Secular forcing as the origin of the clump in Beta Pic's debris disk (83%) - Used python to calculate positions of the particles and the collision rates at different timestamps.
- Simulation of gas particles in elastic collision in a 2D square - Used C++ to run different equations and show the motion of the particles on a 2D graph.

Newham Collegiate Sixth Form Centre *Sep 2017 - Jul 2019*

Alevels: Mathematics (A*), Further Mathematics (A*), Physics (A*) and Chemistry (A*)

AEA: Maths (Distinction)

Coding Skill:

- Intermediate: Java, Python, MATLAB, HTML, CSS, JavaScript, React.

PREVIOUS EXPERIENCES

Cambridge University Islamic Society

Charity Sub-Committee

Cambridge

May 2021 - May 2022

- Operated a Charity event for over 50 people to climb Mount Snowdon in Wales.
- Displayed effective time management to ensure all tasks were complete.
- Helping execute 4 other charity events including Bake sales and an Auction.

Bright Network (Technology)

Online Internship

London/Online

Jul 2020

- Networked, met people from around the country, saw companies involved including Vodafone and Google

Cambridge University Bangla Society

Access Member

Cambridge/Online

Jun 2020 - Oct 2020

- Doing practise interviews for students applying to Cambridge University

PRIOR CODING EXPERIENCE

Bright Network Technology Academy (Coding Boot-camp, Online)
(TechSkills, Tech Industry Gold Accredited)

Jul 2023 - Sept 2023

- Using Java, Spring Boot and Postman to create a back-end data API for a food recommendation website.
- Using React to create a website for a geography quiz API. Displaying each question using react router with a log in page and a final score page. Also used npm packages such as react-circular-progressbar.
- Using Java, Spring Boot, SQL and React to create an e-commerce website allowing a user to register, buy items and make multiple orders.

Personal Trainer

- Using Java, Spring Boot and PostgreSQL to create a back-end for the website. Used b-crypt to encrypt passwords.
- Used React for the front-end allowing the user to make an account, post workouts, view calorie information and to explore various exercises for different body parts.

AWS Certified Cloud Practitioner

Feb 2024

ACHIEVEMENTS, INTERESTS AND ROLES OF RESPONSIBILITY

- Running - Ran 42km (Marathon distance) for Charity.
- Power lifting - 140kg Bench Press, 150kg Squat, 180kg Deadlift.