

# Muhammad Al-Haadee Rahman

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I am a Mechanical Engineering master's graduate who has always been a keen problem-solver. While studying, I enjoyed collaborating on numerous group design projects and realised the tangible impact of code through learning Matlab and Python. This sparked my interest in further self-learning with Python and joining the Bright Network Full-Stack Bootcamp. I have continued to improve my skills through personal projects, and I now wish to be a software engineer with an organisation that holds collaboration and self-development as core values.

## Education & Technical Skills

### Sir John Cass Sixth Form

07/15 – 07/17

- Mathematics(A), Economics(A), Physics(A), Biology(B)

### University College London (UCL), MEng Mechanical Engineering

09/17 – 07/21

First Class Honours

#### Relevant Coursework / Modules:

- Undergraduate Individual Project (74%) – Self-taught Abaqus to design an aircraft wing and used Matlab to collate and analyse over 2000 data points for crack detection.
- Capstone Group Design Project (67%) – Used Matlab and Catia to develop a prototype device used to detect cancerous tissue.
- Design and Professional Skills (71%) – Designed a CAD model of a home to reduce construction waste as part of an interdisciplinary team and presented it to a non-technical audience.

#### Technical Skills:

- |         |               |              |              |
|---------|---------------|--------------|--------------|
| ▪ Java  | ▪ Spring Boot | ▪ JavaScript | ▪ PostgreSQL |
| ▪ React | ▪ HTML/CSS    | ▪ Git        | ▪ Python     |

## Previous Experiences

### Covid Test Operative | Tower Hamlets Council

07/21 – 03/22

- Accurately processed patient data in accordance with GDPR through internal online systems.
- Quickly resolved conflicts with customers in a high-pressure setting.
- Collaborated and communicated effectively to ensure the smooth operation of testing sites.

### Physics Tutor | Sir John Cass Sixth Form

02/18 – 07/18

- Facilitated small group sessions with students of varying abilities, helping 80% reach their target grade.
- Built rapport with students to develop tailored strategies for success.
- Prepared teaching materials and effectively communicated complex concepts.

### Maths Tutor | Excel Tutors

12/17 – 04/18

- Taught groups of Students aged 8-16 and liaised with their parents to discuss progress.
- Deescalated arguments between students to prevent disruption.
- Organised examinations and homework regularly to monitor and identify areas for improvement.

## Coding Experience

### Portfolio Website

- Used React with a focus on CSS to create a personal [portfolio website](#).
- Implemented an email system using the emailJs library.

**E-commerce Site | Personal Project****12/22 – 01/23**

- Created RESTful API for an [eCommerce site](#), using Java, Spring Boot, JPA, Hibernate and PostgreSQL
- Learned how to use Mocking library Mockito and AssertJ for unit tests.

**Bright Network Technology Academy | Coding Bootcamp****08/22 – 10/22**

- Developed Full stack applications such as a [fantasy football website](#) using Java Spring Boot, React and PostgreSQL which included authentication of users with JWT.
- Built a REST API for a [text-based adventure game](#) as a group using Spring Boot, PostgreSQL and tested with Postman.
- Utilised AGILE methodologies to deliver effective results in group projects.
- Developed an understanding of testing approaches and frameworks such as **Jest** and **Junit** as well as TDD.

**Python Course | Udemy****04/22 – 06/22**

Created a game of [Blackjack](#) and tic-tac-toe independently as milestone projects of the course.

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**Achievements & Interests****IMechE Design Challenge**

Created a robotic pipe-climber in the university's IMechE design challenge, which was nominated to represent UCL at the IMechE competition.

**Social Basketball Player**

Play in weekly five-a-side basketball games with friends.