Muhammad Al-Haadee Rahman – [github.com/Alhaadee]

Personal Bio

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. This sparked my interest to pursue further self-learning with Python and subsequently Join the Bright Network Full-Stack Bootcamp. I have continued to improve my skills and I now wish to be a software engineer with an organisation that holds collaboration and self-development as values.

Education & Technical Skills

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
- React
- Spring Boot
- HTML/CSS
- JavaScript
- Git
- PostgreSQL
- 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** to create a personal portfolio website and deploy on GitHub pages.

E-commerce Site (Personal Project)
- 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.
- Currently working on learning React Query and Bootstrap to create the front-end.

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.

Achievements & Interests

IMechE Design Challenge   01/19 – 06/19

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

Social Basketball Player - Play weekly five-a-side basketball games with friends.

Online Gaming - Compete with friends in competitive gaming tournaments, where we have won first place.