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# Muhammad Hussain

## Junior Software Developer

Barking, London

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<https://github.com/mhuss03>

## SKILLS

### Software Development Skills:

- Full-stack development
- Version Control (Git)
- Agile Methodology

### Core Programming Languages:

- Proficient in Javascript, Python, C
- Familiar with Rust, Java

### Database Management:

- MySQL
- MongoDB

### Web Technology:

- HTML, CSS, Javascript
- Front-end - React, htmx, Tailwind
- Back-end - Node.js Django

## Projects:

### Language Learning App - *React Tailwind Flask MySQL*

I designed and built an Arabic language learning app featuring two distinctive modes. In the Interactive Grammatical Analysis mode, users engage in hands-on sentence construction by arranging grammatical blocks. The Fast-Paced Grammatical Analysis mode challenges users to swiftly analyse provided sentences for efficient learning. This app was developed to address the scarcity of options for practising classical Arabic within an English language context, offering an innovative and practical learning experience.

### Recipe App - *React Tailwind*

This project served as my inaugural foray into React development, aimed at acquiring foundational skills in the framework. Users can seamlessly explore recipes through a real-time search bar and category filters (e.g., main or side dishes). The app provides additional insights, such as the number of likes and estimated preparation time, enhancing the overall user experience.

### Study App - *JS HTML CSS*

Created a study app tailored for students managing numerous open tabs, consolidating all features onto a single page. The app includes a Task Tracker for intuitive task management, a Note-Taking System to jot down and organize

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important notes, and a versatile Timer offering options for both a stopwatch and customizable interval timer. Additionally, the app features a Background Music Player for an enhanced study environment, allowing users to enjoy music seamlessly while focusing on their tasks.

**All projects are accessible for viewing on GitHub.**

## EXPERIENCE

### **Just IT Training LTD, London** - *Software Development Bootcamp*

Oct 2023 - Feb 2024

- 12 Week Intensive bootcamp covering the fundamental of Web and Software Development

### **Self Employed, London** - *Mathematics Tutor*

Sep 2023 - Present

- Goal: Ensure students understand core mathematical ideas, emphasising comprehension over repetitive tasks.
- Approach: Prioritise the "why" behind mathematical concepts for long-term success.
- Teaching Style: Create an engaging learning atmosphere with customised courses and interactive techniques.
- Responsibilities: Aid students in grasping challenging concepts through relatable examples and practical applications.
- Assessment: Monitor progress through examinations and quizzes, adjusting teaching strategies accordingly.
- Objective: Cultivate genuine enthusiasm for maths alongside proficiency by building a strong conceptual foundation.

## EDUCATION

### **King's College London, WC2R 2LS** - *Electronic Engineering (First Year Completed)*

Sep 2022 - Aug 2023

I pursued a Bachelor of Science degree in Electronic Engineering at King's College London and am currently on a gap year exploring opportunities in the software development field. My focus is on developing a comprehensive understanding of electronic systems, microcontrollers, and advanced circuitry. Throughout my academic journey, I gained practical experience in project design and problem-solving, enhancing my technical skills and analytical thinking. I have experience with languages such as C and C++, and I have hands-on experience with software like MATLAB, LTspice, and Fusion 360.

### **Bow Sixth Form, E3 3QW** - *A levels & GCSEs*

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Sep 20215 - Aug 2022

A Levels -

- Maths A\*
- Physics A
- Further Maths B

GCSE -

- Grade 8 - Physics, Maths, Further Maths, Biology
- Grade 7 - English Literature, History Chemistry
- Grade 6 - English Language

## Interests

With a passionate enthusiasm for technology and robotics, I constructed a custom PC optimised for CAD software to facilitate designing robot parts. I also assembled a 3D printer for manufacturing, resulting in the successful creation of a miniature 3-axis robot arm. Additionally, I independently coded a control system for an RC boat project using MATLAB Simulink, showcasing a comprehensive skill set in both hardware and software integration within the field of robotics.

## AWARDS

UKMT Junior Silver

UKMT Intermediate Bronze

High Achiever Award Bow Sixth Form

## Additional Info

**References available upon request**