

Mohammed Salim

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Education

Aston University

Birmingham, UK • 2023 - Present

BSc (Hons) Computer Science

- **Predicted 1st Class Honours**; achieved a 1st Class average in the first year of studies.
- **Relevant Modules**: Software Engineering, Web Development, Object-Oriented Programming, Data Structures & Algorithms, Introduction to AI.

King Edward VI Aston Sixth Form

Birmingham, UK • 2021 - 2023

- **A-Levels**: Mathematics (B), Computer Science (B), Physics (B)

Technical Skills

Languages: Python, C#, Java, JavaScript, TypeScript, PHP, SQL, HTML/CSS, GoLang, C++

Frameworks & Libraries: React, React Router, Node.js, Laravel, NumPy, Matplotlib, Unity Engine, Tailwind CSS

Developer Tools: Git, GitHub, Supabase, Visual Studio, Docker (Beginner), Arduino

Databases & Auth: PostgreSQL, MySQL, Supabase Auth, REST APIs

Projects

Study Streak

Full-Stack Study Tracker Web App

- Conceived, built, and deployed a full-stack application in a 48-hour challenge, demonstrating rapid development and MVP prioritisation skills.
- Developed a dynamic, multi-page front-end using **React**, **React Router**, and **Tailwind CSS**, with a **Supabase** (PostgreSQL) back-end for secure user authentication, session management, and data storage.
- Engineered key features including an interactive Pomodoro timer with YouTube playlist integration, advanced task management with custom categories, and a global user leaderboard.

Arduino Volume Mixer

Hardware & Software Integration Project

- Forked the 'Deej' open-source project to create a physical ESP32-based volume mixer, developing a desktop client in **GoLang** and low-level firmware in **C++**.
- Engineered significant enhancements including **Bluetooth support** for wireless connectivity, power saving code for battery optimisation, and custom button macros for extended functionality, showcasing skills in improving existing solutions.

Farm to Fork

E-Commerce Web Application

- Developed a complete e-commerce website for my university group project course work using the **Laravel** PHP framework for the back end and **Tailwind CSS** for a responsive, modern UI.
- Implemented core commerce features from scratch, including product catalogues with search and filtering, a dynamic shopping cart system, and secure user authentication.

Experience

Software Developer (C#)

Freelance Project - Aug 2024

- Architected and developed a Virtual Recording Studio application from concept to completion using **Unity** and **C#**.
- Implemented a comprehensive feature set including multi-track audio recording, a timeline-based playback system, and functionality to export finished projects in various formats (WAV, MP3).

Website Maintenance Volunteer

Hayat Trust - Jan 2024

- Maintained a WordPress site, managing plugins (Elementor, GiveWP) to improve user engagement and ensure reliability of the fundraising forms.

Peer Tutor

Aston University

- Provided academic guidance and one-on-one support to first-year students in Object-Oriented Programming (Java) and foundational Data Structures concepts.

Activities

Active member of the Aston Computer Science and Electronics Societies; committed member of the Aston Volleyball Club.