Tayyeba Sadaq

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Portfolio | LinkedIn | GitHub

EDUCATION

BSc Honors Computer Science   **University of Derby**   **Sep 2022 – Current**

- **Programming II** → C# and Unity - Develop a game with fully functioning front and backend. Clear UI and commented code
- **Databases** → SQL - Create and manage airline database with front-end made in Microsoft Access
- **Networks and Security** → Python - client/server chatroom with encrypted messaging
- **Graphics I** → C++ and DirectX11 - self running 3D graphics
- **Software Engineering** → Java and Report - plan design and develop Airline Management System using Software Engineering methodologies to then implement via an application
- **Application Development** → AWS and PHP - used AWS to understand serverless architecture and make a calculator. Used PHP to create Car Insurance Management System with CRUD functions

CFG Degree Software Engineering   **Code First Girls**   **August 2024 – December 2024**

- **Foundation** → Working with Python and MySQL to create and use APIs for assignment projects such as making a database, querying and the creating a Book Tracker API
- **Specialisation** → Working with Python, MySQL and HTML/CSS/JS in a group project, organised using Trello and Agile methodology to create a finance management website that utilises APIs to monitor user's spending and update graphical representations to check for over-spending and poor budgeting.

ADDITIONAL COURSES/CERTIFICATIONS

MOOC Data and SQL   **Code First Girls**   **December 2023**

- Learned how to manage databases and use SQL to create a library management database. Worked collaboratively to implement and present the product to peers showcasing what was learned over the sessions and applying it. Handled the work together over 1-1 sessions to create database models and drafts to plan out the SQL code.

MOOC Javascript   **Code First Girls**   **March 2024**

- Learned web development skills, specifically Javascript and worked collectively with randomised peers to produce a user-friendly and interactive website that helps decide on a meal to make. Handled the stylising of the website and opening centre peek windows to show recipes.

EXPERIENCE

IEUK Technology   **June 2024**

4-day internship (remote) that worked on networking with employers, engaging in workshops and working with other attendees. Created a work sample to a "real life" based task that was peer-reviewed and showcased skills learned over the 4 days (research, note-taking, presentation, taking feedback). The task was to create a 6-month roadmap to health/steps tracking app with expected metrics to meet and mock user reviews to consider.

Buildspace S5   **June-July 2024**

6-week long experience. Choosing a project and working to plan, design, develop and showcase the result. Worked on a React Book Tracking app that lets users login to an account and keep track of their reading.

PROJECTS

Women In Stem → HTM/CSS/JS - Collaborated on a blog website promoting women in STEM, focusing on web development and UI accessibility through colour schemes and layout. Moderated at university and led a hierarchical team, managing deadlines, progress checks, and contributing to programming, planning, and writing.

Aid Worker Simulation → Unity and C# - sponsored by an external partner. Created a simulation to navigate aid workers through challenging scenarios. combined effort with peers to manage time, working to deadlines and distributing tasks and workloads.

Book Tracker → React Expo – this was my project for Buildspace 2024 where I designed and developed a book tracker mobile-first app using React Expo specifically for mobile however the app is working currently to be optimized for web compatibility as well as being published

SKILLS

Programming: Python, SQL, HTML & CSS, JavaScript, C#, Unity, Git and GitHub, Linux
Frameworks/Cloud/software: React, AWS