Esam Khalid

Info

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As a second-year computer science student and someone who has studied computer science for over 7 years, I have developed a strong passion for software development and programming with high aspirations, a thirst for knowledge and have developed a wide range of skills through my academic pursuits and building projects. I am eager to apply my academic knowledge and technical ability to the role of software engineer.

Education

Birmingham	**Aston University**	**September 2023 – June 2027**

- BSc Hons Computer Science with placement year - [Average – **76.80%** (On track for **First**)]

Through my studies in computer science, I have developed a solid foundation in Object-Oriented Programming in **java**, allowing me to design **modular** and **scalable** software. By the time I begin my placement, I will have completed the **software engineering** and **team projects** modules, gaining experience in **agile methodologies**, **project management**, **team-working** and **collaborative software development**. These modules help prepare me to work effectively in real world situations.

University of Birmingham Sixth Form	**September 2021 – June 2023**

My A level computer science studies allowed me to develop a solid foundation on core concepts such as methodologies, software lifecycles, object-oriented programming, collaborative software development and project management. Achieved CCC.

Kings Heath Boys	**September 2016 – May 2021**

I achieved 10 GCSEs at grade 7-4, Including a grade 7 In Maths, English Language and Computer Science

Technical Experience

Projects

Portfolio Website (2024) [Link to Portfolio Website]

- This portfolio website was an individual project developed completely from scratch using React.JS, Tailwind CSS and Next.JS and made fully responsive.
- Extensively used **git** for **version control**, allowing me to manage and track changes effectively and maintain a **clean** and **organized** codebase.
- This project helped me develop a deeper understanding of workflows, enhancing my ability to work in a **team environment**, manage **project timelines** and ensure code **quality** and **consistency**.
- **TypeScript; React.JS; Tailwind CSS; Next.JS; Vercel**

Aim Trainer (2023) [Link to Github Repository]

- This individual project was an aim trainer developed using **unity** and coded in **C#** and was aimed to help first person shooter players develop their skills.
- Following the core principles of software engineering, the project went through the full **development lifecycle** starting with gathering requirements through client feedback and research.
- I applied **Modular design** principles by splitting the system into manageable parts and used **object-oriented programming** throughout.

- The **iterative development** process was guided using **Agile methodologies**. I created 3 **prototypes** and continually improved them based on testing and user feedback.
- The entire process was documented in a detailed report which emphasized clean code practices and **maintainability**.
- **Unity**; **C#.**

IAD Portfolio 3 (2024) [Link to Github Repository]
- This individual project, the final portfolio project of the Internet Applications and Databases module (CS1IAD) was a web-based project management application that was built using **PHP** and **SQL.**
- It allowed users to edit, view and add projects and Included date-based searching as well as **user authentication**.
- Implemented secure **database Interactions** such as **prepare statements** to prevent **SQL Injections** as well as managing user sessions for **authentication**.
- This project allowed me to develop Important skills in **database management** as well as **secure coding practices** and demonstrated my management of user data securely.
- **PHP; JavaScript; SQL**

Languages and Technologies
- **Python; Java; C#; JavaScript; TypeScript; SQL.**
- **React; Next.js; Tailwind CSS**

Experience

Retail Assistant	Go Outdoors	May 2024 – Present

The dynamic, customer-facing environment surrounding the role of retail assistant helped to develop and strengthen a range of skills including **problem solving**, **communication**, **time management** and **teamwork**. These skills assist me in applying my technical knowledge effectively across a diverse range of problems and adapting to new situations.

- Assisting customers with product inquiries and recommendations allowed me to develop strong **communication skills** and helps me with explaining complex concepts.
- Collaborating with team members to meet sales targets and resolve customer issues helped build **teamwork** and **problem-solving** capabilities.
- Ensuring efficient store operations and maintaining a tidy environment helped improve my **time management** and **task prioritization**.

Extra-Curricular

Clubs and societies
- Member of Aston Computer Science Society (ACSS)
- Member of Computer Science Industry club

Bouldering
- In addition to my academic pursuits, I regularly engage in bouldering, an activity which requires planning, problem solving and perseverance. The iterative process behind climbing boulders mirrors the debugging and optimization cycles within software development. This experience helps me to remain focused under pressure, think critically and adapt to new challenges.

References available upon request