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| Esam  Khalid | Info   |  |  | | --- | --- | | Phone: +44 7484 894802 | Email: esam-khalid@outlook.com | | LinkedIn: <https://www.linkedin.com/in/esam-khalid/> | | |

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.

* A Levels
  + Computer Science – C
  + Biology – C
  + Chemistry – C

**Technical Experience**

**Projects**

**Portfolio Website (2024)** [<https://portfolio-website-v2-esam-khalids-projects.vercel.app>]

* This portfolio website was developed completely from scratch using React.JS, Tailwind CSS and Next.JS and made fully responsive.
* Extensively used **git** for **version control**, which allowed me to keep a **clean** and **organized** code base by effectively managing and tracking changes.
* This project helped me develop a deeper understanding of workflows which allows me to work better in a **team environment**, manage **project timelines** and ensure code **quality** and **consistency**.
* **TypeScript; React.JS; Tailwind CSS; Next.JS; Vercel**

**Aim Trainer (2023)** [<https://github.com/EsamKhalid/CS-Coursework-A-Level>]

* This 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.
* Iapplied **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#.**

**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**.

**Summer School Student University of Birmingham Summer 2022**

This summer school experience allowed me to widen my knowledge on how computer science can be applied to a research environment and how it can aid research efforts in a wide range of disciplines.

**Simulating a bacterial trait and modelling it with A.I**

* Introduced to how **AI** was appliedto simulate bacterial evolution and phenotype prediction.
* Learned about the use of AI techniques such as **machine learning** to analyze genetic data.
* Explored the use of AI in modelling and predicting phenotypic traits based on DNA sequences.
* Experienced AI driven approaches to understanding genetic mutations and their impact on evolutionary processes.

**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**