ISAAC VIEIRA

vieirai@cardiff.ac.uk
isaacvieira03.github.io
+447553519231

EDUCATION

Cardiff University
BSc – Applied Software Engineering
Year 1 Grade Average: 71.8% (1st)
Predicted Grade: 1st
Exp. Graduation: Jun 2024

SKILLS

Java, Python, HTML/CSS, JavaScript, C#, Spring Boot, AJAX, SQL, Git, gLua, Flask

COMPLETED COURSEWORK MODULES

Intro to Web Development, Software Development Skills 1 & 2, Computational Thinking, Fundamentals of Computing with Java, Database Systems, Commercial Applications with Java, Agile Project Management, Cyber Security

EXPERIENCE

FULL STACK DEVELOPER at Epidemic Gaming *Part Time | Jun 2019 - January 2020*

- Utilised **gLua** (Garry's Mod adaption of the open-source Lua language) and **SQL** to design, implement and deploy a game server in which users can interact and play together, handling 40 concurrent players during peak times.
- Worked closely with players and competing server developers to constantly plan and create new ideas to implement.
- Continuously tried and tested current features to find and fix bugs and improve user experience.

PROJECTS

EMPLOYEE MANAGEMENT SYSTEM Java/HTML/CSS/JavaScript/SQL

- Constructed a plan and developed front-end and back-end system to allow supervisors to manage employees, organise meetings, view an analysis of employees or supervisors' wellbeing, and manage supervisor-employee relationships using given requirements and brief from company Graphium.AI.
- Followed agile methodology during the development process, utilising sprint meetings to organise the group.
- Acted as scrum master and became familiar with organising the team, constructing then weighing different user stories.
- Created a final product using a combination of HTML/CSS, JavaScript, Java, SQL, and Spring frameworks (Spring data, spring security) in which the client was satisfied with both visually and functionally.

HIGH SHERIFF OF GWENT WEBSITE Python/HTML/CSS/JavaScript/SQL

- Constructed a plan using given requirements and brief from the soon to be High Sheriff of Gwent and developed front-end to back-end system to act as a website for a public government official.
- Handled campaigning requirements and allowed applications of community-based initiatives and projects for young people to apply for financial support.
- Website allowed upload of letters to show support, which were validated. Also handled and validated applications for financial support of initiatives and projects.
- Deployed a final product using a combination of Python, Flask, HTML/CSS, JavaScript, SQL, in which met the clients' requirements sufficiently.

RUST (GAME) STREAM SNIPING TOOL C#

- Created .NET application that allows a user to quickly scan the maps of tens of thousands of online servers given information about monuments on that map. Finally outputting the servers with a map fitting those criteria.
- Inputted data included the type of monument, the approximate distance from each other and biome.
- Used threading to increase speed at which maps can be filtered to increase overall search speed.
- Map information was retrieved from the game using API of a popular server browsing website through HTTP requests. Extracted JSON data from different server browsers HTTP responses to prefilter servers which were offline or inactive to handle rate-limitation of requests to the aforementioned API.