Muhammad Umar

Programmer & QA Tester

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Portfolio:

https://mumar1999.github.io/Portfolio

Showcasing my projects

About Me

I am a gameplay programmer with experience in gameplay programming, VR development, front-end development, and quality assurance testing. Passionate about crafting immersive and interactive experiences, I thrive on solving complex problems and optimizing gameplay mechanics.

Proficient in **C#**, **C++**, **HTML**, **CSS**, and **JavaScript**, I am currently expanding my skill set by learning **React and Node.js**. My goal is to contribute to the **games industry**, gaining hands-on experience while continuously enhancing my technical expertise.

A **curious and driven** developer, I continuously seek new technologies and refine my craft, aiming to create highly immersive and engaging gaming experiences.

Education

BSC

Computer Games Technologies

University of Portsmouth England, United Kingdom

BTEC

Information Technology and Computing

Croydon College England, United Kingdom

GCSE

Hurlingham and Chelsea School England, United Kingdom

Skills

Programming Languages: C++, C#, HTML, CSS, JavaScript, Bootstrap

Game Development: VR programming, Gameplay programming

Testing & QA: Smoke testing, Sanity testing, Functional testing

Soft Skills: Problem-Solving, Communication, Attention To Detail

Experience

Technical Support / Firmware Tester | Drunk Deer, Volunteer AUGUST 2023 – PRESENT

- Conduct comprehensive firmware testing using smoke testing to assess stability, sanity testing to verify critical functions, and functional testing to ensure compliance with firmware specifications.
- Act as a key liaison between customers and the development team, Diagnosed and reported firmware issues, contributing to a 70% improvement in system stability and user satisfaction.
- Collaborate closely with developers to troubleshoot and refine firmware, contributing to continuous product improvement through iterative testing and feedback loops.
- Help streamline the customer experience by addressing technical concerns efficiently, ensuring users have a seamless interaction with the product.

Projects

Gameplay Programmer | Lumbar Puncture, FundamentalVR

- Working with **fundamental SDK** to create a playable level.
- Incorporating haptic feedback using 3ds systems haptic pens.
- Using C# and prefabs to configure haptic feedback to mimic actual surgery procedure.
- Taking and implementing client feedback to add new feature to the level such as movable objects (e.g. scalpels, needles, anaesthetic cotton)
- Provided feedback on SDK usability, improving documentation clarity.

Al Programmer | Al Enemy NPC, Unreal Engine API

- Developed an Al-driven enemy NPC using Unreal Engine's built-in Al components, implementing behaviour trees for intelligent movement and combat mechanics.
- Combining vision and touch components from the unreal engine API.
- Programming the NPC to follow the player upon sight.
- Programming enemy attack mechanics and damage system.
- Programming player attack mechanics and damage system.
- Animating the enemy NPC to give it more life.
- Designed and implemented a UI system to display dynamic health bars for both enemies and the player.

Certifications/Online Course

 Completed 'The Complete Web Development Bootcamp' by Dr. Angela Yu, gaining hands-on experience in full-stack web development, including JavaScript, React, and Node.js.