Awais Amjad

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GitHub My Website LinkedIn YouTube

Education

September 2021 - May 2024

Queen Mary University of London

Bachelors of Engineering (Hons) - First Class Honours

Key modules*:* Computational and Mathematical Modelling, Arts Application Programming, Introduction to Multimedia, Robotics

Employment

Freelance Software Developer ***August 2024 - Present***

- Develop and maintain web applications for diverse clientele
- Projects include developing an e-commerce website for a clothing line
- Conduct client consultations to define project objectives and requirements, designing user interfaces using Figma
- Implement web solutions using SvelteKit (HTML, Tailwind CSS, JavaScript)

Contract Software Developer - ACUMENT GROUP ***May 2024 - July 2024***

- Contributed to the enhancement of the website, focusing on aesthetics, functionality, and user experience.
- Collaborated closely with a UX designer to revamp the site's appearance and incorporate stunning animations.
- Implemented a Content Management System using Strapi, hosted on Strapi Cloud with an SQLite database, enabling efficient management of job postings by company members.
- Achieved a 50% improvement in site loading speed by optimising assets and a 40% increase in user engagement.
- Developed the website using HTML, SCSS, NodeJs, and JavaScript, and hosted on Vercel.
- Engaged in Code review and testing
- Gained expertise in API integration, website hosting, and Git version control through this project.

Real-Time Functioning Fob Watch for the NHS Memory Project ***September 2023 – May 2024***

- Collaborated on the innovative NHS 'Memory Project' led by Dr. Samy Sadek at the Royal London Hospital for Integrated Medicine, requiring consistent meetings with hospital staff discussing project issues and updates.
- Engineered a custom smartwatch prototype using an ESP32 Microcontroller and LCD, demonstrating proficiency in embedded systems design and hardware integration.
- Developed robust C++ firmware for the watch, optimising for real-time performance and resource efficiency in a constrained embedded environment.
- Implemented and iteratively refined software, resulting in a 30% improvement in display refresh rates and overall device responsiveness.
- Leveraged Onshape CAD software for precise 3D modelling and rapid prototyping, enabling efficient design iterations and improvements to the watch's form factor and ergonomics.

Personal Projects

Digital Watch GitHub

- Currently developing a digital smartwatch powered by an ESP32 and LCD.
- The board is programmed in C and communicates with a custom-built web server through a RESTful API developed in Go, backed by a SQLite database.
- The API employs standard security protocols, including TLS and API key generation, for user authentication.

Quran Web App GitHub

- Developed a user-friendly Quran web application leveraging Flask and Jinja for dynamic, high-performance web pages.
- Integrated with a SQLite database, optimised, cleaned and refined using SQL queries and Pandas.
- Applied Tailwind CSS for elegant styling and deployed on Render for hosting.

Skills

Programming Languages: Python, JavaScript, C, Java, Kotlin
Web Development: SvelteKit, HTML, CSS, Node.js, Tailwind CSS
Systems: Windows, Linux (Fedora/Ubuntu), Bash, PowerShell
Tools: Git, Docker, SQL, Figma
Interests: New technologies and Programming Languages, Systems Programming, Web Programming

Extracurriculars & Certifications

Ford Digital (University 3rd-4th Year) Job Simulation on Forage - October 2024

- Completed a job simulation that involved building containers for one of Ford's backend development teams.
- Developed a backend to stream engine temperature sensor readings from cars to mobile phones.
- Connected a Flask server to a Redis instance using Docker Compose.