

Shah Qureshi

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SKILLS

Languages: Java, Python, Javascript, C, C++, SQL, HTML/CSS, Verilog

Tools & Concepts: OOP, REST APIs, SQLite, Firebase, FFmpeg, Tailwind CSS, Git, OpenAI API, React.js, Next.js, LLMs, Agile

EXPERIENCE

Veeder-Root

Simsbury, CT

Software Engineering Intern

May 2024 - August 2024

- Enhanced TLS-450 security by auditing SSH configurations and replacing 14 insecure algorithms with modern, industry-standard alternatives.
- Enforced encrypted HTTPS connections on TLS-450 Web Interface cookies, ensuring secure data transmission.
- Increased session ID security by implementing a CSPRNG, raising entropy to 117 bits and passing validation with Burp Suite.
- Standardized credential input validation across the GUI and WebUI by implementing RegEx tied to the system's SQLite backend.

Lavner Education

Houston, TX

IT Intern

June 2023 - August 2023

- Designed and instructed IT-related concepts including machine learning, robotics, and programming to camp attendees, sparking interest in STEM and problem-solving.
- Utilized web-based AI tools such as "Teachable Machine" and OpenAI to effectively teach machine learning concepts. Instructed in Python, Java, and Scratch courses to enhance attendees' coding skills.
- Facilitated camp attendees in creating video games and apps using MIT App Inventor and GameMaker, fostering creativity and technical expertise.

Cloudaro.io

Enfield, CT

Engineering Intern

May 2021 - August 2021

- Assisted in engineering database search algorithm using Python, cutting loading times for each query by 75%.
- Facilitated front-end implementation of product using HTML, and CSS.
- Streamlined search process, increasing efficiency and accuracy by 35%; enhanced overall product usability with intuitive, user-friendly UI design.
- Designed and implemented new automated testing process to ensure code accuracy and efficiency. Developed comprehensive user guides, cutting customer onboarding times by 90%.

PROJECTS

Ticketmaster App Clone in Android

shahqureshi.com/projects • April 2025 - May 2025

- Developed an Android app that allows users to search for local events using the Ticketmaster API, with real-time location-based filtering via Google Maps SDK.
- Implemented user authentication and event-saving functionality using Firebase Authentication and Firestore Database.
- Built the frontend using Android's native view system, featuring dynamic event cards and interactive map integration.

ROS-Based Robot Teleoperation API

shahqureshi.com/projects • January 2025 - May 2025

- Engineered a ROS2-based API for the ABB IRB 1200 robot using MoveIt, laying the foundation for a unified robotic control interface across the CCSU Robotics Lab's robot systems.
- Upgraded outdated frameworks to ROS2 and implemented collision-detection and motion planning with MoveIt.
- Set up and networked a digital twin environment with RobotStudio.

Animal Simulation Game

shahqureshi.com/projects • October 2024 - December 2024

- Engineered a Java-based ecosystem simulation using LibGDX framework, implementing multiple design patterns (Observer, State, Command, Factory, Singleton, Decorator) to create a maintainable and extensible architecture.
- Implemented runtime controls (play/pause, speed), dynamic creature loading, and behavior logic (feeding, movement).
- Worked in an Agile team with weekly sprints and code reviews, ensuring continuous delivery and refinement of gameplay features.

LLM Automated Documentation

shahqureshi.com/projects • August 2024 - December 2024

- Developed a full-stack, Python-based desktop application that automatically converts instructional videos into technical documentation using OpenAI's GPT and Whisper APIs, reducing manual documentation time by automating the process.
- Engineered video processing pipeline using FFmpeg for audio extraction and frame capture.
- Integrated OpenAI's Whisper API for accurate speech-to-text transcription and GPT for converting raw transcripts into structured technical documentation.
- Built HTML documentation generator with responsive design using Tailwind CSS, automatically incorporating extracted video keyframes.

EDUCATION

Central Connecticut State University, New Britain, CT

May 2025

Bachelor of Science in Computer Science Honors, Concentration in Software Engineering

GPA: 3.92

Awards & Honors: Dean's List, Computer Science Departmental Honors, Summa Cum Laude Honors

Extracurriculars: Computer Science Club, Arab Student Council