SYED HUSSAIN

Concord, CA 94518 • 9253846206 • syed.hussain96343@gmail.com

Websites, Portfolios, Profiles

- https://hamzahportfolio.onrender.com/

Education

Bachelor of Science: Computer Engineering, Expected in 06/2023
University of California, Santa Cruz - Santa Cruz, CA

High School Diploma: 06/2019
Concord High School - Concord, CA

Professional Summary

Motivated and detail-oriented software/hardware engineer with experience in React, Python, C, and C++. Graduating in June 2023 from the University of California Santa Cruz with a degree in Computer Engineering. Skilled in embedded systems design using FPGAs and microcontrollers.

Skills

- Computer Programming
- Web Applications
- Fluency in C, C++, C#
- Linux
- Python
- Typescript
- JavaScript
- SQL
- SystemVerilog
- Verilog
- REACT.js
- NODE.js

Professional Experience

Software Engineer, 06/2022 to 08/2022
Self-employeed – Concord, CA

- Architected and developed a high-performance, user-friendly web application using React and Node.js that leveraged the Spotify Web API to allow users to search for songs, create playlists, and connect to their Spotify account.
- Designed and implemented custom algorithms and data structures to optimize search performance and ensure accurate search results.
- Utilized industry-standard software development practices, including agile methodologies, version control with Git, and continuous integration/continuous delivery (CI/CD) pipelines, to ensure high-quality code and rapid iteration.
- Demonstrated outstanding problem-solving and troubleshooting skills, including diagnosing and resolving complex technical issues related to the app's integration with the Spotify Web API and third-party libraries.

- Successfully deployed the app to a cloud-based hosting platform and monitored and optimized its performance.

Embedded Systems Engineer, 09/2021 to 12/2021
University Of California, Santa Cruz – Santa Cruz, CA
- Developed embedded systems using FPGAs and microcontrollers to implement various hardware projects, including a simulation of a toaster oven interface on the hardware, using languages such as C and C++.
- Utilized Quartus Prime, ModelSim, and other hardware design tools to design and simulate digital logic circuits, develop and test custom hardware designs, and interface with peripherals.
- Conducted in-depth research on hardware components and peripherals to ensure their compatibility with the systems being developed, and identified potential issues before they could become problems.
- Worked in a team environment, collaborating with hardware and software engineers to ensure optimal system functionality and to ensure that projects were completed on time and within budget.
- Developed and implemented coding standards to ensure high-quality and maintainable code for future development and ease of testing.
- Demonstrated excellent problem-solving skills, identifying and resolving complex technical issues related to hardware design and implementation.
- Developed and maintained documentation and testing procedures for all projects, ensuring smooth transition and handover of projects between team members.

Languages

English

Native or Bilingual

Urdu

Native or Bilingual

Hindi

Full Professional

Spanish

Limited Working