

# 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-employed** – 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**



**Hindi**



**Urdu**



**Spanish**

