

Faizan Khan

Computer Science graduate with a focus on building engaging and accessible digital experiences.

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Location: Bangalore, Karnataka, India

Experience

Software Development Engineer - 1 (SDE-1) • UST • December 2024 - Present

As a Full-Stack Developer at UST, I was responsible for designing and building scalable, high-performance web applications. My role includes both frontend and backend development, where I leverage Java for the backend and work with modern technologies like ReactJS for the frontend. I focus on ensuring seamless integration between client-side and server-side systems while delivering efficient and robust solutions.

Technologies Used:

- Frontend: Java, ReactJS, HTML, CSS
- Backend: Java (Spring Boot), REST APIs, SQL

Software Developer Intern • Bharat Electronics Limited • Aug - Sept 2023

At Bharath Electronics Limited, I worked on an NMS Topology System, designed to simplify the creation of network topology diagrams for various management purposes. The system provided a highly intuitive interface, enabling users to design and customize their diagrams with ease.

Technologies Used:

- Frontend: React JS, Tailwind CSS, MUI Components
- Database: NoSQL (MongoDB)

Web Developer Intern • PHN Technologies • April - June 2023

During my internship at PHN Technologies, I developed a dynamic online shopping website that delivers an engaging user experience. The site features a responsive design with smooth navigation, allowing users to easily search, filter, and purchase products.

Technologies Used:

- Frontend: ReactJS, Tailwind CSS
- Backend: Node.js (for API integration)

Selected Projects

Fire Detection and Precision Sprinkler System • Dec 2023 - Mar 2024

This project focused on creating a real-time fire detection and suppression system that uses advanced technologies to detect fires and extinguish them efficiently. The system integrates sensors, cameras, and sprinklers to identify fire hazards, send alerts to authorities, and activate precise water spray patterns to suppress fires in affected areas.

Technologies Used:

- Languages/Frameworks: Python, Flask, OpenCV
- API Integration: HuggingFace API

Key Contributions:

- Developed a real-time fire detection algorithm using computer vision techniques.
- Designed and implemented a precision control system for targeted sprinkler activation.
- Built an alert system to notify authorities and building occupants of potential fire threats.

File Sharing Application • April - June 2023

This project involved creating a file-sharing platform that allows users to transfer files without relying on external servers. The application includes features like real-time device discovery and peer-to-peer (P2P) connections, ensuring fast and secure file transfers between devices.

Technologies Used:

- Frontend: React.js
- Backend: Node.js, Web Sockets, WebRTC
- Other Tools: Docker

Key Contributions:

- Developed a responsive web interface for real-time device discovery and file-sharing.
- Implemented secure P2P connections using WebRTC to enable direct file transfers.
- Built a robust backend system to manage device connections and handle data transfer protocols efficiently.

Skills

Programming Languages

Java, Python, Golang, C, C++, JavaScript, TypeScript, HTML, CSS, Sass, PHP, Flutter, Swift

Libraries & Frameworks

React, Next.js, Node.js, Spring Boot, Express.js, React Native, Tailwind CSS, Styled Components, MUI, OpenGL, Web Sockets, React Router

Tools & Platforms

Git, GitHub, Vercel, WordPress, Firebase, SQL, MongoDB, Docker, Figma, AWS (S3, EC2, DynamoDB), Unity, REST APIs

Education

HKBK College of Engineering

Bachelor of Engineering in Computer Science • Dec 2020 - Aug 2024

- 8.57 GPA

Sri Chaitanya PU College

Secondary Education Board (PCMC) • April 2019 - June 2020

- 76.5%

Florence Public School

ICSE • April 2019 - June 2020

- 81.5%

Certifications

- SQL Essentials • SoloLearn
- Theoretical Understanding of C# • SoloLearn
- The Web Developer BootCamp • Udemy
- REST API using Spring • InfySpringboard
- Natural Language Processing in Python • InfySpringBoard

Interests

- Travel
- Food
- Swimming