

# 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 Developer Intern · Bharath Electronics Limited · Aug - Sept 2023

- Developed an NMS Topology System, a powerful tool for creating various types of topology diagrams, catering to diverse network management needs.
- Offers a user-friendly interface for designing and customizing diagrams.

#### Technology Used:

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

#### Roles and Responsibilities:

- Developed a user-friendly UI for customizing topology diagrams
- Built reusable UI components using React and managed state changes
- Optimized UI performance and ensured scalability

### Web Developer Intern · PHN Technologies · April - June 2023

- Developed an online shopping app website that utilizes various client-side tools to provide a seamless and engaging user experience.
- The website features a responsive design, intuitive navigation, and robust search functionality, allowing users to easily find and purchase products.

#### Technology Used:

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

#### Roles and Responsibilities:

- Implemented robust search functionality and filtering options
- Ensured seamless navigation and checkout process
- Implemented security measures to protect user data

## Selected Projects

### Fire Detection and Precision Sprinkler System · Dec 2023 - Mar 2024

- The Real-Time Fire Detection and Precision Sprinkler System is a cutting-edge solution that utilizes advanced technologies to detect fires and extinguish them effectively.
- The system comprises sensors, cameras, and sprinklers that work in tandem to identify potential fire hazards, alert authorities, and deploy targeted water spray patterns to suppress fires.

#### Technology Used: Python, Flask, OpenCV, HuggingFace API Integration

#### Roles and Responsibilities:

- Developed algorithm for real-time fire detection using computer vision
- Implemented precision control system for targeted sprinkler activation
- Created alert system for notifying authorities and building occupants

### File Sharing Application · April - June 2023

- The application leverages advanced web technologies to provide a user-friendly and efficient platform for transferring files without the need for external servers.
- The system includes real-time device discovery, p2p connections for smooth sharing experience.

#### Technology Used: React.js, Node.js, Web Sockets, Docker, WebRTC

#### Roles and Responsibilities:

- Developed a responsive web interface for real-time device discovery and file sharing
- Implemented secure peer-to-peer connections using WebRTC for direct file transfers
- Created a robust backend system to manage device connections and data transfer protocols

## Skills

### Programming Languages

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

### Libraries & Frameworks

React, Next.js, Node.js, 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**

- 8.4 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

- Web accessibility
- Travel
- Food
- Football
- Swimming