

Jay Trivedi

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Experienced Software Developer seeking full-time roles

Experience

Software Developer, Vicharak | Surat, Gujarat

Oct 2021 - Now

- Engineered a full remote access software using WebRTC(js), enabling users to control their devices (**Axon, Vaaman**) via terminal or full-screen sharing. Integrated with the **Linux kernel** to transmit screen, mouse, and keyboard buffer securely using WebRTC for real-time interaction.
- Built a **browser-based IDE** for **FPGA development**, allowing users to securely log in, write code, compile it into a binary, and deploy it directly to their assigned Vaaman boards equipped with embedded FPGAs
- Created **BLE-based** smart home application (working as ble client and ble server both simultaneously)
- Developed **NFC based** application for a casino company, which used for transfer fund to vending machines
- Designed portal for **wireless pendrive** for users to login , upload , and manage files remotely with secure access, real-time retrieval , cloud integration, using **React.js**, TypeScript and **Nodejs**
- Built a React.js-based smart-home dashboard with a focus on **frontend performance** optimization, modular UI components, and seamless **API integration**
- Deployed and customized software like **ERP (Frappe)**, **Discourse**, and **InvenTree** implementing tailored modifications to enhance features, optimize workflows, and meet specific business requirements.
- Integrated **Alexa** into the smart-home system, implementing **OAuth authentication(Node.js)** and backend services for seamless voice control and automation
- Created a **Slack application** called Leave Bot for managing leave requests, built with **Node.js**, and integrated it with custom applications, including the **Chhavi** device.

Android Developer, O.S info-solution | Remote

July 2020 - Sept 2021

- Designed and built a complete food ordering ecosystem like Swiggy, including a **Flutter-based** customer app, a delivery app, and an owner dashboard for seamless order management, all integrated with a **REST API** for efficient data handling and communication.

Android Developer (Intern), M.D infotech | Surat, Gujarat

Oct 2020 - Feb 2021

- Deployed, developed, and managed a Flutter-based app for kids, featuring interactive games and engaging content for an learning experience.

Education

SSASIT, GTU **BE in Computational Science and Engineering** , 7.82 CGPA

2019-23

Skills

Programming	Java, C++, Python, Dart, Swift, JavaScript, Go basic
Frameworks	React, Next.js, Express.js, Flutter, SwiftUI, Flask,Tailwind CSS
Protocols	HTTP, BLE, Webrtc , Websocket, MQTT, JWT, OAuth 2.0, SSH , TCP/IP, UDP, FTP/SFTP
Databases & cloud	MySQL, MongoDB, Firebase, Google Cloud, AWS S3
Tools & Platforms	Android Studio, adb,DOM manipulation, Canvas API, Linux/Ubuntu, Serverless Application, AWS, Slack Bot

Projects

Comzy.io – CPaaS Platform & Ngrok Alternative (website : comzy.io)

- Allows users to **expose** their **local development** environments as secure, **public endpoints** effectively turning any PC into a live server with minimal configuration.
- Bundled with a lightweight and easy-to-use SDK suite including **Video Calling SDK**, **Audio Calling SDK**, and **Chat SDK**, enabling developers to integrate real-time communication features into their apps within minutes using just a few lines of code.

BLE-based indoor navigation

- Designed an indoor navigation system using Multi-Bluetooth Low Energy (BLE) for precise object location tracking.
- Integrated machine learning algorithms to enhance positioning accuracy and predict movement patterns.
- Enabled real-time location detection and navigation within indoor environments.

BLE-based OTA app

- App which helps you to update your firmware using ble

Swift-Port [Freelancing Project]

ongoing

- Flutter-based app for iOS and Android, enabling users to ship parcels within their city.
- Built both shipper-side and user-side platforms for booking, tracking, and delivery management.
- Integrating real-time location tracking, secure payments, and optimized route planning for efficient parcel transportation.

Interests

Interested in Full Stack Development, IoT, Robotics, Reconfigurable Hardware, and Machine Learning, with a passion for building innovative and scalable solutions.