

Shubham Singh

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Software Engineer with 4 years professional experience. Explore the open-source projects and libraries I maintain on GitHub.

Founded

Ved Analytics

 Website  Demo Video

A PRIVACY FOCUSED WEBSITE ANALYTICS PLATFORM

- Compliant with **GDPR**, **PECR** and other privacy laws. Does not tracks any IP or Cookies. Everything is just **Browser headers** !!
- Has 30+ reviews on **Product Hunt**.
- Made with **NextJs** and **ExpressJs**.

Experience

Tezda Inc, Senior Backend Developer | Remote, UK

April 2024 - Current

- Worked on the **App Notifications Backend** which involved extensive use of queues, sockets, Firebase(FCM)
- Made the entire **RTC Stack** to enable users to perform Audio and Video calls. Made using **Livekit**, **Redis**, deployed on **Kubernetes**
- Written Some Lambda Functions that are connected to AWS API Gateway to function as APIs to function the application.
- Wrote extensive Unit and Integration tests for the APIs that are deployed on AWS Lambda

Indotabi Tours, Full Stack Developer | Delhi, India

Sept 2022 - April 2024

- I built the website using **NextJS (TypeScript)** as the front end and with **ExpressJS** as the backend.
- I worked with roughly 3000+ lines of **PostgreSQL** scripts to successfully construct a good database schema.

Zoomtod , Product Developer | Remote, US

Jan 2022 - Sept 2022

- Application is successfully in production with **500+ Users** and More that **100+ users** actively using the App for more than **8 hrs/day**.
- Built a cross platform application using **Flutter (Dart)**. Deployed on **Google Play Store**.
- Built an Admin Panel in **ReactJS** that tracks constant activities of all the rooms using **Web Sockets**.
- Set Up Server and API Monitoring using **Grafana**, **Prometheus** and used **Loki** for logs collection.

Vitalth Pvt Ltd , Backend Developer | Delhi, India

Dec 2020 - Jan 2022

- I was responsible for using **Govt. of India's UHI** (Unified Health Interface) architecture to build a robust backend for the company.
- I successfully completed the M1 and M2 phases of the UHI on-boarding process. (There are 3 steps in total).

Education

7.5/10 **BTech in Software Engineering**, Delhi Technological University | Delhi, India

Skills

Languages	Python, Rust, C , JavaScript , TypeScript , Dart, Go
Frameworks	ReactJS , NextJS , ExpressJS , Actix Web (Rust), Flutter, Flask, Rocket (Rust), Gin (Go)
Tools	Docker, Git, Prometheus , Grafana , Loki , Redis , Kafka, Jest
DevOps	Nginx, AWS EC2, AWS ECS, AWS EKS, AWS ECR, AWS Lambda, AWS S3, AWS Elastic Cache, AWS Cloud watch
Database	PostgreSQL, MySQL, MongoDB, DynamoDB

Projects

Vanish

 Github  Crates.io

Generates locally trusted X.509 SSL Certificates from scratch

- Follows the X.509 Standards as mentioned in **RFC 3280** (April 2002) to match the PKI Standards. Published on Crates.io with **1600+ downloads**.

Vault

 Github  Crates.io

VERSION CONTROL SYSTEM SIMILAR TO GIT, IMPLEMENTED IN RUST

- Supports majority of git commands (e.g., Commit, Init, Revert). Published as a binary on Crates.io with **1300+ downloads**.

React Maps

 Github  NPMJS

REACT COMPONENTS FOR INTERACTIVE MAPS

- Provides ready-made components of **SVG maps** for countries and continents. Over **125,000+ package downloads**.

MLVM

 Github  Crates.io

Multi language version manager. NVM alternative built in Rust

- Uses **file system symlinks** to securely transfer version. Over **800+ package downloads**.

Proximity

 Github

TERMINAL CHAT APPLICATION USING WEBSOCKET PROTOCOL IN C

- Uses **IPV4 address** and **WS Protocol** to transmit messages inside the terminal.

Go-Json-Db

 Github

JSON DATABASE USING JSON FILES AND FOLDER STRUCTURE

- Similar approach to MongoDB (using JSON instead of BSON). Supports CRUD operations (GET, POST, UPDATE, DELETE).

Libaddress

 Github  NPMJS

Robust TypeScript library designed for handling addresses across multiple countries.

- Provides a flexible system that understands and validates addresses from various countries, making it easier to work with international addresses

2048

 Github

IMPLEMENTATION OF THE 2048 GAME IN FLUTTER