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

Projects

Flux Mail   ⬡ Github   🌐 Website

A fully self-deployable and open source Temp Mail SMTP Service written in Rust and NextJS

- Users can create and receive mails on through custom SMTP Service which are stored temporarily for 7 days.

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 **160,000+ 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