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

BlazeSwap, *Blockchain Engineer* | Remote Part Time, India   *Jan 2025 - Present*
- Working on **Cosmwasm** contracts for the **XION** blockchain (Built on Cosmos).
- Was responsible for making a **Swap** on XION.
- Deployed **CW20 Tokens** and other stuff for the company.

Tezda Inc, *Senior Backend Developer* | Remote, UK   *April 2024 - Present*
- 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 Lambda Functions and extensive Unit and Integration tests connected to AWS API Gateway

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, Cosmwasm, Cosmos
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   Crates.io

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 **3200+ 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 **2000+ downloads**.

React Maps   Github   NPMJS

REACT COMPONENTS FOR INTERACTIVE MAPS
- Provides ready-made components of **SVG maps** for countries and continents. Over **185,000+ package downloads**.

MLVM   Github   Crates.io

Multi language version manager. NVM alternative built in Rust
- Uses **file system symlinks** to securely transfer version. Over **2000+ 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).