

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 (Layer- 1 on Cosmos).
- Deployed **CW20 Tokens** and other contract stuff for the company.
- Testnet live at - **https://testnet.blazeswap.io**

Dardoc , Software Engineer | Remote, UAE

Jan 2025 - Present

- Created and maintained the **Express** endpoints for the company across the products.
- Worked on Advanced searching across the services using **Typesense** , remove Azure Cognitive Search saving several 100 Dollars monthly.
- Worked on the generating **analytics** from the Database.
- Worked solely to redevelop the admin panel from scratch

Tezda Inc, Senior Backend Developer | Remote, UK

April 2024 - Jan 2025

- 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, DePIN (Decentralized Physical Infrastructure)
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.

React Maps

 Github  NPMJS

REACT COMPONENTS FOR INTERACTIVE MAPS

- Provides ready-made components of **SVG maps** for countries and continents. Over **198,000+ package downloads**.

aom-rs

 Github

A rust library with exposes FFI Bindings of the AV1 Video compression algorithm. (libaom binary to be specific)

- Uses a bit of unsafe rust for calling C functions directly from the rust binary.

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**.

MLVM

 Github  Crates.io

Multi language version manager. NVM alternative built in Rust

- Uses **file system symlinks** to securely transfer version. Over **2200+ 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).