

# Shubham Singh

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

## Experience

### Supra Labs, Blockchain Engineer | Remote, India

- Worked on bridge infrastructure from Supra L1 (MoveVM) to Ethereum in a fully trustless manner, verifying ethereum proofs from scratch
- Worked on indexing Block Roots of the Ethereum L1

### Exo Technologies, Rust Engineer | Remote, US

- Work with **Jito Foundation** to build the backtesting client for their official **stakenet** contract, [Github Link](#)
- Worked on several contracts for the **Jito Foundation** which includes the official contract for **Jito Tokenomics** to be release in Q1 2026 and a couple of other major contracts

### BlazeSwap, Blockchain Engineer | Remote Part Time, India

- Was responsible for making a **Swap** on XION (Layer- 1 on Cosmos ) using **Cosmwasm** contracts for the **XION** blockchain (Built on Cosmos).
- Worked with **Uniswap** to create a router contract in Solidity used in Production. Contract deployed on **Base Mainnet**
- Deployed **CW20 Tokens** and worked with several contracts like **CW3 Multisig**, **Astroport** and **Terraswap**
- More than **USD 100,000** Swap volume achieved in less than 4 days.

### Dardoc, Software Engineer | Remote, UAE

- 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

- 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

- 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.

### Vitalth Pvt Ltd, Backend Developer | Delhi, India

- 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

<b>Languages</b>	Rust, Python, C, JavaScript, TypeScript, Dart, Go
<b>Frameworks</b>	ReactJS, NextJS, ExpressJS, Actix Web ( Rust ), Flutter, Flask, Rocket ( Rust ), Gin (Go)
<b>Blockchain</b>	Solana, Anchor, Cosmwasm, Cosmos, DePIN (Decentralized Physical Infrastructure)
<b>Tools</b>	Docker, Git, Prometheus, Grafana, Loki, Redis, Kafka, Jest, PostgreSQL, MySQL, MongoDB
<b>DevOps</b>	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.
- More than **30000+** mails weekly.

### React Maps

[Github](#) [NPMJS](#)

REACT COMPONENTS FOR INTERACTIVE MAPS

- Provides ready-made components of **SVG maps** for countries and continents. Over **210,000+ package downloads**.

### 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**.

### 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.

### Uniswap V2 Router

[Github](#) [Basescan](#)

Uniswap V2 Router contract with custom fees options.

- Uses UniSwap V2 router and add custom functionalities like fees and wraps to create a swap.

## 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 **4000+ 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 **2250+ downloads**.

## MLVM

 Github  Crates.io

### Multi language version manager. NVM alternative built in Rust

- Uses **file system symlinks** to securely transfer version. Over **2500+ 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).