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   *Dec 2024 - Present*
- 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**
- Mainnet live at - **https://app.blazeswap.io** .
- More than **USD 100,000** Swap volume achieved in less than 4 days.

Dardoc, *Software Engineer* | Remote, UAE   *Jan 2025 - Jul 2025*
- 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 - Jul 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.

Vitalth Pvt Ltd , *Backend Developer* | Delhi, India   *Dec 2022 - Mar 2023*
- 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.
- 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**.

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).