Shivendra Mishra

Full-Stack & Systems Engineer | TypeScript, JavaScript, Rust, Node.js, React/Next.js

shivendramishra.sm93@gmail.com • shivendra.cc • shibu0x • shibu0x • shibu0x

Technical Skills

Languages: TypeScript, JavaScript, Rust, Python, Java, Solidity
Frontend: React.js, Next.js, React Native, Tailwind CSS, HTML, CSS
Backend: Node.js, Express.js, Axum, REST APIs, WebSockets, PostgreSQL, MongoDB, Redis, Prisma, Supabase
Systems: Async Programming, Concurrency, Distributed Systems, Event-Driven Systems, Networking, Linux
Infrastructure: Docker, Git, CI/CD, API Design, Database Design, Real-Time Systems
Web3: Solana, Anchor, Smart Contracts, MPC Integrations, On-Chain Indexing

Experience

Co-founder & CTO Dec 2025 – Aug 2026
Epoch *Remote*

- Owned the full technical stack of a production product as the sole engineer: **Next.js**/React frontend, **TypeScript** application code, **Rust** backend, **PostgreSQL** data layer, real-time **WebSockets**, and on-chain settlement.
- Built a **Rust** backend and **on-chain indexer** to process events, synchronize application state, and keep backend, frontend, and blockchain state consistent in real time.
- Shipped the product to **Solana mainnet** with **$3K+** in real transaction volume and **zero fund loss**; won a Solana privacy hackathon and the Arcium side track.

Lead Developer / Full Stack Engineer Jan 2025 – Nov 2025
Kolar Labs *Remote*

- Built production backend infrastructure supporting **100K+ on-chain operations per batch**, optimizing application workflows under high network load.
- Developed concurrent, **event-driven** backend systems for a real-time **Discord game bot**, handling asynchronous events and multiple users reliably.
- Architected backend workflows integrating APIs with application services and **Anchor smart contracts**, optimizing transaction processing for production workloads.

Projects

async-runtime | Rust, Systems Programming, libc, kqueue | GitHub

- Built a minimal **asynchronous runtime** from scratch in Rust with zero dependencies beyond **libc**, implementing a single-threaded executor that drives real `std::future::Future` tasks.
- Hand-built a `Waker`/`RawWakerVTable` implementation and a **`kqueue`-based reactor** to drive async TCP I/O and timer futures, exploring execution down to the **syscall boundary**.
- Designed the runtime to block in the kernel during idle periods instead of busy-polling, achieving **zero CPU usage at idle** while running a working TCP echo server.

veiled | Rust, Cryptography, CLI | GitHub · 40 stars

- Built a **local-first**, terminal-based password manager with an encrypted local vault and a keyboard-driven terminal interface; no network access by design.
- Implemented **Argon2id** for key derivation and **XChaCha20-Poly1305** for authenticated encryption, with sensitive data actively zeroized from memory after use.
- Published to **crates.io** for one-command installation (`cargo install veiled`); grew to **40+ GitHub stars** from organic developer interest.

Hurdle | Next.js, TypeScript, PostgreSQL, Supabase, AI | Live

- Built and launched a production full-stack **SaaS** application end to end as the sole engineer: **Next.js** frontend, **TypeScript** backend, **Supabase** auth, and serverless APIs.
- Designed **PostgreSQL**/**Supabase** data flows for **AI**-assisted resume analysis and job-specific application generation, including usage tracking and authenticated request handling.
- Implemented **subscription and one-time payment flows** with server-side verification to prevent client-side tampering with entitlements.

Open Source & Achievements

- Merged contributions to Solana Foundation Explorer, Surfpool, and wallet-ui.
- **5× Hackathon Winner** across Web3, infrastructure, and developer tooling competitions.
- **3× Grant Recipient** from Superteam and the Solana Foundation.

Education

Bachelor of Technology in Computer Science and Engineering 2021 – 2025
Dronacharya Group of Institutions, Greater Noida *India*