

Deepak Negi

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Solana/Rust engineer building on-chain protocols and full-stack, real-time platforms – including a perpetual futures DEX on Solana, a multi-region uptime monitor in Rust, and 5 merged open-source PRs (Boa, MoFA), one an RBAC security fix.

EDUCATION

Graphic Era Hill University

Bhimtal, Uttarakhand

Bachelor of Technology in Computer Science – CGPA: 8.04/10

Aug 2024 – May 2028

- **Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Database Management Systems, Computer Networks, Object-Oriented Programming, Design and Analysis of Algorithms

PROJECTS

Nyxora | [Live \(devnet\)](#) | [GitHub](#) | *Rust, Anchor, Solana, Next.js, Bun*

Mar – June 2026

- Built a USDC-collateralized perpetual futures protocol on Solana devnet with leveraged long/short positions on SOL, ETH and WBTC, implemented as 17 Anchor instructions over PDA-derived accounts.
- Settled trades on Pyth on-chain price updates and gave each market its own risk config (leverage cap, liquidation threshold, fee in bps), long/short open-interest tracking, an LP pool, and admin pause/resume.
- Wrote a Bun keeper bot (with a dry-run mode) that liquidates unhealthy positions and executes limit, take-profit and stop-loss orders, plus a wallet-connected Next.js trading terminal.

Viora | [Demo video](#) | [GitHub](#) | *Bun, WebSockets, Redis, PostgreSQL, Next.js*

June – Aug 2026

- Launched a browser-based, real-time 2D virtual workspace with shared spaces, tile-based maps, avatar movement and chat; reached 223 unique visitors and 320 sessions (avg. 3m 35s) since launch, tracked with PostHog.
- Designed a WebSocket gateway with JWT-authenticated sessions, live presence, movement sync and room-scoped messaging.
- Scaled horizontally with Redis pub/sub so users connected to different server instances share the same room state; PostgreSQL schema via Prisma.

Argus | [Live](#) | [GitHub](#) | *Rust, Poem, Diesel, Redis Streams, PostgreSQL, Docker, Next.js*

Jan – Mar 2026

- Built a multi-region uptime monitor in Rust: a scheduler pushes check jobs onto Redis Streams, and workers in Bangalore and San Francisco run HTTP checks with retries and a 10s timeout.
- Added cross-region confirmation to avoid false alarms from one region's network glitches: an incident is opened and an email alert sent only when both regions see the failure.
- Built a Next.js dashboard with per-region response-time graphs, 24h/7d/30d uptime and incident history; JWT + Argon2 auth; deployed with Docker Compose on regional servers.

OPEN SOURCE CONTRIBUTIONS

MoFAClaw – security fix

- Closed an RBAC bypass in shell-command validation by enforcing token-exact command matching and removing `sh -c` execution. ([PR #55](#))

Boa – JavaScript engine written in Rust

- Fixed a crash (panic) in the `Function` constructor caused by nested lexical bindings; added a regression test. ([PR #4645](#))
- Made UTC date tests pass in every timezone by replacing local-time construction with `Date.UTC()`. ([PR #4660](#))

MoFA – Rust AI agent framework

- Made independent workflow nodes run concurrently using Tokio `JoinSet` instead of sequentially. ([PR #514](#))
- Fixed Axum v0.8 route syntax and a dead WebSocket handler; added an integration test. ([PR #178](#))

TECHNICAL SKILLS

Languages: Rust, TypeScript, JavaScript, Python, SQL

Blockchain: Solana, Anchor, SPL Tokens, PDAs, Pyth, Pinocchio, web3.js, Ethereum, Solidity

Backend & Real-Time Systems: Bun, Node.js, Express, Axum, Poem, Tokio, REST APIs, WebSockets, JWT, Redis Streams, Redis Pub/Sub

Frontend: Next.js, React, Tailwind CSS, Konva, HTML5 Canvas

Databases & DevOps: PostgreSQL, Prisma, Diesel, Docker, Docker Compose, Git, CI/CD, Clerk, Vercel