

Shivraj Soni

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EDUCATION

Panjab University

Bachelor of Engineering in Computer Science

Chandigarh, India

Aug. 2023 – May 2027

- Current CGPA: 8.48/10.0
- Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Networks, Database Systems

EXPERIENCE

AI Society (Aisoc)

Blockchain & AI Engineer Intern

Chandigarh, India

Jun 2025 – Jul 2025

- Architected a university RAG chatbot using Vector DBs, serving 1,000+ users with high context-awareness.
- Fine-tuned LLMs for academic-specific queries, achieving 95% response accuracy during production testing.

OPEN SOURCE CONTRIBUTIONS

Braidpool (Bitcoin P2P Pool) | *Rust, RPC, Concurrency*

Nov 2025 – Feb 2026

- Developed a unified **CLI entry point** for Braidpool nodes to facilitate RPC service interaction ([PR #333](#)).
- Optimized Stratum v2 proxy performance by replacing global Mutexes with **RwLock**, significantly reducing lock contention ([PR #405](#)).

Antiwork (Gumboard) | *Vercel, DevOps, Open Source*

Jul 2025

- Streamlined the onboarding process by implementing a **Vercel Deploy Button**, enabling one-click deployment for community contributors ([PR #44](#)).

PROJECTS

Fake-Email | *Rust, Next.js, Postgres, SMTP, AWS, Nix*

Feb 2026 – April 2026

- Built a temporary email service with a custom **SMTP server in Rust** and a Next.js UI for real-time inbox polling.
- Automated data purging and ensured environment reproducibility using **Nix** on **AWS EC2** instances.

DNS Resolver | *Rust, DNS Protocol, Bit Manipulation*

Jan 2026 – Feb 2026

- Engineered a recursive DNS resolver that performs byte-level packet manipulation to traverse root-to-leaf hierarchies.

BitTorrent Client | *Rust, P2P, Tokio, Networking*

Dec 2025 – Jan 2026

- Developed a P2P client implementing bitfield exchange and tracker protocols using **Tokio** for async I/O.

xUI | *Next.js, TypeScript, Tailwind CSS, FumaDocs*

Apr 2025 – Jun 2025

- Created a React component library with a dedicated CLI installer and comprehensive technical documentation.

TECHNICAL SKILLS

Languages: Rust, TypeScript, C/C++, Python, Solidity, SQL, Shell

Systems: P2P, SMTP, DNS, Stratum v2, TCP/UDP, Async Rust (Tokio), Concurrency (RwLock/Atomics)

DevOps: Git, Docker, AWS (EC2), Nix, GitHub Actions, Caddy, Linux (NixOS/Ubuntu), Neovim

Frameworks: React, Next.js, Node.js, FastAPI, WebSockets, Postgres, Tailwind CSS, Shadcn/UI

ACHIEVEMENTS & LEADERSHIP

- **Smart India Hackathon:** Runner-up for a decentralized transparency solution using blockchain.
- **GFG Campus Ambassador:** Mentored 100+ students in Systems Programming and DSA.