

# 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

### Kaptured.ai

*Software Engineer Intern*

Jaipur, India

May 2026 – Jun 2026

- Built core modules for **1tap.video**, an AI video generation platform, including a Remotion-based component pipeline and the multi-tenant RAG chatbot widget.
- Integrated **Stripe** billing, led on-page **SEO** optimization, and redesigned the complete site **UI/UX**; built internal tools including an ads/Meta crawler and LinkedIn crawler for lead data.

### DartlineCargo

*Full-Stack Software Engineer Intern*

Remote

Jan 2026 – Jun 2026

- Designed and built **soniworldexpress.com** end-to-end, a production courier and cargo booking platform covering order creation, real-time tracking, and shipment management.
- Engineered a multi-courier rate **aggregator engine** – a NimbusPost-style competitor – to compare carrier rates and automate shipment routing across logistics partners.

## 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).

## PROJECTS

### 1tap.video | Remotion, Next.js, AI SDK, AWS Lambda

May 2026 – Jun 2026

- Engineered a prompt-to-video pipeline converting scripts into **LLM-generated Remotion (React) components** via the **Vercel AI SDK**, rendered to MP4 at scale on **Remotion Lambda (AWS)**.
- Built a multi-tenant RAG chatbot widget and integrated **Stripe** credit-based billing.

### 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, Networking, Bit Manipulation

Jan 2026 – Feb 2026

- Engineered a recursive DNS resolver that performs byte-level packet manipulation to traverse root-to-leaf hierarchies.
- Implemented UDP query construction and response parsing from scratch in **Rust** with zero external DNS libraries.

## TECHNICAL SKILLS

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

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

**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.