Swaroop Patil

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Skills

Languages: TypeScript, JavaScript, Python, SQL, Solidity, Rust, Go, Java, C++

Frontend: React, Next.js, Vite, Tailwind CSS, GSAP, Three.js, Framer Motion, React Native (Expo), HTMX

Backend & Databases: Node.js, Express.js, Flask, Django, REST APIs, JWT, PostgreSQL, MySQL, MongoDB, SQLite, Cloudflare D1/KV/Queues

DevOps & Tools: Docker, Docker Compose, Git, Linux, GitHub Actions (CI/CD), Cloudflare Workers, AWS, Vercel

Blockchain / Web3: Solidity, Foundry, Hardhat, IPFS, Ethers.js, Wagmi, Smart Contracts

Experience

Fullstack Engineer Intern, Tickernaut — Aug. 2026 – Present

TypeScript, React, Next.js, Node.js, SQL

- Building Tickernaut, a real-time finance dashboard for tracking companies, investors, and ownership data.
- Diagnosed and fixed latency issues on backend APIs, reducing response times on key endpoints.
- Reduced redundant API calls by introducing context-aware request handling and improved caching strategies to cut database load.
- Fixed authentication edge cases and improved error handling.
- Replaced per-node queries in the 3-hop company ownership graph with batched SQL after the original queries overloaded the database.

Associate Software Engineer, Better Software (JTC Pvt Ltd) — May – Jul 2026

React, Next.js, Node.js, Python, Flask, PostgreSQL, Docker

- Contributed full-stack to Operate, a self-hosted AI SRE agent that investigates production alerts and drafts fixes as PRs, working across the React/Next.js frontend and Python/Flask backend services.
- Contributed to core backend infrastructure focusing on distributed task queue reliability and incident resolution.
- Strengthened platform security by implementing server-side input validation and audit guardrails to safeguard financial ledger data against unauthorized tampering.
- Replaced legacy notification templates with a third-party API.

Software Engineer, Sieg Project (Freelance) — Dec. 2025 – May 2026

React, Next.js, Node.js, Django, Rust, TypeScript, Tailwind

- Built and deployed websites and APIs for freelance clients.
- Pixel Riot Media Agency — built an agency website using React, Vite, Framer Motion, and Tailwind CSS.
- Nirvis Dry System — designed and deployed an SEO-optimized, responsive product catalog using Next.js, TypeScript, and Tailwind CSS.
- BcastKids — built a short-form video platform for kids for a US client, a Rust (Loco.rs) API with social features (uploads, likes, comments, friends/followers).

Full Stack Developer Intern, Hosteze (Akomen Ventures Pvt Ltd) — Aug. – Dec. 2024

React, Node.js, Full Stack

- Reworked the multi-step signup flow.
- Implemented WhatsApp (`wa.me`) integration so users can directly connect with property posters; added loading skeletons to improve perceived performance.

Leadership / Positions of Responsibility

Webmaster, IOIT ACM — Jul. 2024 – Dec. 2025

Next.js, TypeScript, Django, Flask, HTMX, Three.js, Tailwind

- Built and maintained production websites: IOIT ACM (repo), IOIT TENET (repo), and IOIT MUN (repo).
- Architected ChapterOS (repo), an internal ERP system built with Django, MySQL, Docker Compose, and Tailwind CSS; developed and maintained CI/CD pipelines and automation scripts.
- Organized TENET Hack '25, a 12-hour hackathon, and built the event website (repo); developed Youth Parliament 2026 (repo) with React, Vite, GSAP, and Framer Motion.

Projects

Stryde (repo, ETHGlobal) 2026

React Native, Arkiv, 0G, World ID, Swarm

- Co-built an onchain fitness app with Apple Watch and GPS tracking, territory capture, segments, clubs, challenges, and leaderboards.
- Used Arkiv for segments and leaderboards, 0G for an AI coach, World ID for reward checks, and Swarm for encrypted GPS routes.

Heimdall (repo) 2026

Next.js, TypeScript, Cloudflare Workers, D1, KV, Queues

- Built a search engine for fresh, verified tech jobs, pulling listings directly from official Greenhouse, Lever, Ashby, Workable, and SmartRecruiters feeds instead of reposted job boards.
- Runs entirely on Cloudflare Workers: Drizzle ORM on D1 with full-text search, KV and edge caching with ETags (unchanged boards return 304), and a cron-triggered crawler on Cloudflare Queues; CI runs typecheck, lint, tests, and build on every change.

College Predictor (cetbaba.in) May 2025 – Present

TypeScript, React, Next.js, MongoDB

- Full-stack web app predicting engineering college admission chances for JEE Main and MHT-CET aspirants.
- Built custom web scraping tools to parse official admission cutoff data into a MongoDB database.
- Grew to **7,000+ registered users** and **40,000+ visits** within weeks of launch, driven entirely by organic traction.

BugChan (repo, ETHGlobal) Oct. 2025

Solidity, Next.js, IPFS, Foundry, Smart Contracts

- Built a decentralized bug bounty platform connecting security researchers with Web3 projects through on-chain escrow, researcher staking, and automated payouts.
- Implemented client-side encryption for vulnerability reports stored on IPFS (Lighthouse), with an on-chain record of submissions, status changes, and payouts; integrated a Blockscout Autoscout explorer.

SpellCraft Mar. 2026

Minecraft Mod, Autonomous Agents, NLP, Java

- Built a Minecraft mod providing an environment for autonomous/semi-autonomous agents that understand natural language to perform in-game tasks, for studying how AI agents behave in open, unstructured environments.

Bit By Query (repo) Jan. 2025

Express.js, React, Vite, Tailwind CSS, SQLite

- Developed a competitive SQL challenge platform with real-time query execution and a live leaderboard, with JWT-based authentication (23 forks).

Scruter (repo) Jul. 2024

Node.js, Express.js, MongoDB, Next.js

- Full-stack local classifieds marketplace with user authentication, listing management, and search; later migrated to Next.js (repo).
- Maintained it through GirlScript Summer of Code 2024 and Hacktoberfest 2024 (**100+ forks**), triaging issues, reviewing external pull requests, and mentoring first-time open-source contributors.

Open Source

aria2/aria2 | *C++*

- Authored three patches: respect absolute paths in `--out` (#2368, approved in review), retry SSL/TLS handshake failures (#2370), and show torrent private-flag status in `--show-files` (#2367).

owasp-blt/blt-next | *Next.js, HTMX, React*

- Auth pages with client-side validation (#32), reusable HTMX components (#111), and mobile navbar fix (#113).

cpu-benchmark | *Python*

- Added multi-core benchmarks and graceful interrupt handling (PR #29).

Achievements

ETHGlobal Mumbai '26 — **6,250 USDC** for Stryde: Arkiv, 0G, World ID prizes and an Arkiv + Swarm bonus (showcase).

ETHMumbai '26 — Won ENS Sponsor Track Prize (**1,000 USDC**) for project Paper.

Innerve X '26 — Top 40 finalist out of 10,000+ teams from across India (organized by AIT Pune & Major League Hacking).

HackByte 4.0 — Won **Best Use of GitHub** (organized by IIITDM Jabalpur & Major League Hacking) for SpellCraft.

ETHOnline '25 — Blockscout Partner Prize Winner, **2nd Place** — Best use of Autoscout, for BugChan (showcase).

Innovex '25 — 3rd Place, Project Competition organized by AIT Pune R&D Cell for Bit By Query.

Education

AISSMS Institute of Information Technology, Pune 2023 – 2027

B.Tech in Information Technology (Honors in Cyber Security) *CGPA: 8.15/10*