

Shreyansh Singh

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TECHNICAL SKILLS

Languages: C++, Python, TypeScript, SQL

Core CS: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks

Frameworks: FastAPI, Express.js, Node.js, React.js, Next.js

Databases: PostgreSQL, MySQL, MongoDB, Redis

Developer Tools: Linux, Docker, Git, GitHub Actions, Postman

WORK EXPERIENCE

Software Developer Intern

Endpoint Global, Mumbai, Maharashtra

Hybrid

Jan 2026 – Jun 2026

- Designed and implemented 20+ RESTful APIs for a cinema booking platform serving 20,000+ users under concurrent load, following software engineering best practices.
- Optimized MySQL query performance through table partitioning and indexing, **reducing data fetch latency by 80%** while improving scalability for real-time booking workloads.
- Applied secure coding practices by auditing 40+ production APIs, implementing parameterized SQL queries, schema validation, and input sanitization to eliminate SQL injection and type validation vulnerabilities.

Full-Stack Developer Intern

Karma Niyati, Mumbai

Remote

Mar 2025 – May 2025

- Built ValueCalc, an AI-powered sales automation platform that automated repetitive workflows and **improved operational efficiency by 30%**.
- Designed scalable FastAPI microservices following modular software architecture principles, **reducing request latency by 45%**.
- Integrated RAG pipelines and LLMs to generate strategic business insights, reducing manual content creation for sales teams.

PROJECTS

TalkFlow - AI Pronunciation & Speaking Coach

 [GitHub](#) | [Live](#)

- Architected a real-time voice pipeline over WebSockets, streaming audio between Next.js 15 and a FastAPI backend with sub-second round-trip latency, deployed on AWS.
- Built a phoneme-scoring engine using **Wav2Vec2 ASR** and g2p-en/CMUDict phoneme alignment, layered with OpenRouter LLM conversational tutoring and Google Cloud TTS for spoken feedback.
- Implemented Better Auth (GitHub/Google OAuth) and Drizzle ORM over PostgreSQL (Neon), with TanStack Query handling data fetching across 3+ auth providers.

Obsin - Offline-First Obsidian Vault Reader

 [GitHub](#) | [Live](#)

- Built a serverless, local-first sync engine using **IndexedDB (Dexie)** and GitHub's Git Trees API, with SHA-diffing to fetch only changed files, cutting resync payload size on repeat visits.
- Rendered Obsidian markdown (wiki-links, callouts, backlinks, frontmatter) via react-markdown, with **FlexSearch** enabling instant full-text search across the entire vault client-side, with zero backend calls.
- Designed a GitHub OAuth flow via Cloudflare Worker, keeping notes fully offline-capable after first sync while enabling quick edits synced back via GitHub's Contents API.

FastCRUD - Open Source Contribution

 [PR #309](#)

- Implemented **cursor-based pagination validation** to enforce column type constraints before query execution, preventing runtime database errors; merged into main.
- Added type-aware validation for Integer (INT16/32/64), datetime, and UUID cursor types using SQLAlchemy metadata, keeping the solution database-agnostic.

EDUCATION

Thakur College of Engineering and Technology

B.E. in Information Technology - CGPA: 8.6/10

Aug 2023 – 2027 (Expected)

ACHIEVEMENTS

- Secured **3rd place out of 259 teams** at InnovGenius 2026, a national-level ideathon organized by ACM-TCET and TCS.
- Editorialist, Shastra Coding Club (TCET) Created DSA editorials for competitive programming learners.
- Solved 1200+ problems across platforms and achieved a LeetCode contest rating of 1617. [LeetCode](#)