

Shreya Sawarn

Software Engineer | Backend Development

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linkedin.com/in/shreya-sawarn | github.com/Shreya-Sawarn | [LeetCode](#) | [CodeChef](#)

Summary

Software engineering intern with backend experience across two companies, building REST APIs, authentication flows and database operations with Node.js, MongoDB and MySQL. Strong problem-solving foundation with **280+ LeetCode problems solved** and rated CodeChef contest participation, backed by systems-level work in C with POSIX threads and socket programming. Comfortable shipping and debugging production features in an agile, cross-functional team.

Technical Skills

Languages	C++, C, Python, SQL, HTML, CSS
Backend & Data	Node.js, REST API Development, Authentication Flows, MongoDB (CRUD), MySQL, PostgreSQL
Systems & Tools	POSIX Threads, Socket Programming, Selenium, Git, GitHub, Bootstrap, Excel (Analytics)
AI & Data	Machine Learning Fundamentals, Generative AI (Gemini, Imagen), Prompt Engineering, Data Analysis

Experience

Software Engineering Intern (*Vulcan Learning Collective, Remote* | vulcanprep.com) Aug 2025 – Present

- Build backend features for a multi-tenant assessment platform spanning **23 question types**, AI-assisted grading and licensed multi-tier access, developing REST APIs with Node.js and MongoDB.
- Contributed to a self-hosted sandboxed code-execution grading engine covering **13 languages**, behind a rate-limited run endpoint that never leaks hidden tests or reference solutions.
- Worked on four-tier access control (pod assignment, per-test license, subscription tier, public access) resolved live on every attempt, so a revoked license blocks the next start immediately.
- Implemented authentication flows and database operations that improved reliability of core user-facing modules, shipping and debugging in an agile, cross-functional team.

Software Developer Intern (*Bluestock Fintech, Remote*) May 2025 – Jul 2025

- Built and maintained features for a fintech web platform, improving user dashboard performance.
- Worked on API integrations, authentication flows and database queries to support smoother transaction handling.
- Partnered with the product team on debugging and code optimization to reach production-ready deployments.

Projects

COMEDK Guide (*Next.js, PostgreSQL, Prisma, Python, Gemini API*) Live

- Team-built rank-prediction and counseling platform; contributed to the Python/pdfplumber pipeline turning official admission PDFs into a validated dataset of **6,500+ records across 150+ colleges**.
- Supported the retrieval-augmented AI assistant (Gemini embeddings, vector search) that answers student queries with cited cut-off data, guarded against invented numbers.

Multi-threaded Proxy Web Server (*C, POSIX Threads, Socket Programming*)

- Built a multi-threaded proxy server in C that handles concurrent client requests using POSIX threads.
- Implemented request forwarding, response caching and connection management to improve throughput under load.

Instagram Automation Bot (*Python, Selenium, Web Scraping*)

- Developed an automation tool using Python and Selenium to perform scheduled actions, with browser session management, element detection and error handling for robust unattended execution.

Competitive Programming & Certifications

- LeetCode:** 280+ problems solved across Arrays, Strings, DP, Linked Lists and Trees. **CodeChef:** Division 3, rated contests.
- Job simulations:** JP Morgan (Software Engineering), AWS APAC (Solutions Architect, Cloud & Infrastructure).
- Certifications:** MongoDB Database Management & CRUD; Google Cloud, Real-World AI Applications with Gemini & Imagen.

Education

Visvesvaraya Technological University (*B.E. Electronics & Communication Engineering, CGPA: 8.9/10*)

Expected Jun 2027