

SHIVAM SINGH

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EDUCATION

GLA University, Mathura

Bachelor's Degree - Computer Science Engineering - CGPA - 8.83

Aug 2025 – Jun 2029

Mathura, Uttar Pradesh

TECHNICAL SKILLS

Languages: Python, Rust, Go, Java, SQL

Frameworks/Libraries: FastAPI, LangChain, LangGraph, PyTorch, Next.js, React

Databases: PostgreSQL, ChromaDB, FAISS

Tools: Docker, Kubernetes, Git, GitHub Actions

Core Competencies: WebSocket Communication, REST APIs, Retrieval-Augmented Generation, State Machine Design, Asynchronous Systems

PROJECTS

USee | *Rust, Next.js, WebSocket*

In Progress, 2026

- Building a bidirectional streaming platform for real-time video, image, and text transfer between clients, with a Rust backend and a Next.js frontend communicating over WebSocket.
- Designing the core streaming protocol and connection-handling layer from scratch; actively in development.

Scout | *Python, FastAPI, LangChain*

2025 – 2026

- Built a backend for a single research agent using a deterministic state-machine loop (plan → use tools → verify) instead of letting the model freely control flow, to reduce hallucinated steps.
- Added a swappable multi-provider LLM layer (OpenAI, Anthropic, local Llama models) and evidence scoring to check generated claims against retrieved sources.

CyberSentryAI | *Python, FastAPI, LangChain*

2026

- Built a platform to flag phishing, scam, and suspicious-URL patterns across text and email input using an LLM-based reasoning layer.
- Implemented an async FastAPI backend with email OTP verification and audit logging.

OPEN SOURCE CONTRIBUTIONS

modelcontextprotocol / python-sdk | *GitHub*

- Opened a fix for a race condition between request cancellation and response handling in the SDK's RequestResponder, with a regression test covering the fix.

loop-engineering (cobusgreyling) | *GitHub*

- Contributed features for tracking missed items and false positives during review cycles; credited in the project's community contributor list.

riscv / riscv-unified-db | *GitHub*

- Opened a fix for the C.NOP instruction encoding, wildcarding the immediate bits per the RISC-V spec so HINT code points with a non-zero immediate are no longer misclassified as C.NOP.

ray-project / ray | *GitHub – merged*

- Fixed the Ray Dashboard to hide GPU/GRAM columns in the Actor and Node tables when no GPUs are present in the cluster.

Tracer-Cloud / opensre | *GitHub – 2 PRs*

- Refactored the JWT auth module to remove restating comments and add a proper Python deprecation warning for `verify_jwt`.
- Replaced a stale TODO in the Antigravity CLI integration with a documented known-gap note.