

Aayush Sharma

Backend Python Developer | Software Engineering Intern (2027 batch)

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SUMMARY

Computer Science undergraduate (B.Tech, Parul University, 2027) who builds backend systems in Python: REST APIs, async pipelines, and LLM/RAG applications. I ship end to end, from design and data modelling to evaluation and delivery, and I measure LLM output against baselines and human ratings instead of trusting it because it looks right. Comfortable with AI-assisted development, with the judgment to verify what ships.

TECHNICAL SKILLS

Languages: Python (primary), Java, JavaScript, SQL

Backend & APIs: FastAPI, Django, Flask, Node.js, Express.js, REST API design, WebSockets, async programming

Databases: PostgreSQL, MySQL, MongoDB, SQLite (FTS5), ChromaDB (vector DB)

AI / LLM: LLM integration, RAG, prompt engineering, few-shot prompting, embeddings, semantic search, Groq API, Ollama, sentence-transformers

Fundamentals: Data structures & algorithms, OOP, MVC, vector similarity search, background services

Tools & Cloud: Git, GitHub, Postman, AWS (EC2, S3, IAM, VPC), React, TailwindCSS

PROJECTS

AI Support Agent for Customer Support

github.com/Aayush-shrma/AI-support-agent

Python, Groq API (Llama / GPT-OSS), ChromaDB, RAG, few-shot prompting

- Classified support tickets into 6 intents at **92.1% accuracy** vs. a 55.2% majority-class baseline on the Twitter AppleSupport dataset, using few-shot LLM prompting.
- Built RAG reply drafting grounded in 239 hand-labeled real support replies, filtering generic "take this to DM" brush-offs out of the knowledge base.
- Designed a conservative auto-handle vs. escalate policy routing billing, account-access and safety issues to humans; documented failure modes and validated the LLM judge against human ratings.

Second Brain: AI-Powered Desktop Memory App

github.com/Aayush-shrma/Second-brain

Python, FastAPI, React, Vite, TailwindCSS, SQLite, ChromaDB, Ollama, Qwen2.5-VL, sentence-transformers, watchdog

- Architected a full-stack, fully local app that indexes files, browser history and clipboard for natural-language search, with zero cloud dependency and data privacy by design.
- Built a real-time watchdog pipeline auto-indexing PDFs, DOCX, PPTX, images and code (OCR via pytesseract, captions via Qwen2.5-VL) across 10,000+ items.
- Engineered hybrid search combining ChromaDB vector similarity with SQLite FTS5, re-ranked by recency, with a NumPy cosine-similarity fallback.
- Designed an async LLM auto-tagging pipeline (categories, topics, summaries) streaming live updates to a React dashboard over WebSockets; added multi-browser history ingestion (Chrome, Edge, Firefox, Brave), a system-tray daemon, CPU throttling and a single-instance lockfile for reliability.

Valorant Tracker: Full-Stack Web App

github.com/Aayush-shrma/valorstat

Python, Flask, MongoDB, JavaScript, HTML5, CSS3, REST API, MVC

- Built a RESTful Flask + MongoDB backend and JavaScript frontend tracking player stats, match history and win-rate analytics, with API response times under 200 ms in local benchmarks.
- Owned the full lifecycle solo: system design, database modelling, backend, frontend integration and deployment.

EDUCATION

B.Tech, Computer Science and Engineering | Parul University

Expected 2027

CGPA: 7.09/10 | 12th: 81.25% | 10th: 100%

CERTIFICATIONS

- NPTEL, Computer Networking: OSI model, TCP/IP, routing algorithms, network security.
- AWS Fundamentals: EC2, S3, IAM, VPC.