Sahil Sharma

+91-7017340383 | worksahilsharma@gmail.com | linkedin.com/in/sahil-sharma-5a3715270 | github.com/phnxsahil | portfolio-b21s.onrender.com

Summary

2026 Computer Science graduate building full-stack AI products with Python, FastAPI, Next.js and PostgreSQL. Built an AI companion with long-term memory across conversations, a pre-launch interest-based digest that reached 100+ waitlist signups, and a local-first codebase explanation tool.

Skills

Backend: Python, Java, FastAPI, SQL (PostgreSQL), Redis, Celery, pytest
Frontend: Next.js, React, TypeScript
AI / LLM: LLM APIs, RAG, Embeddings, pgvector

Technical Projects

Miryn | *Next.js, FastAPI, PostgreSQL, Redis, pgvector* | GitHub | Live — Jan 2026 – Oct 2026
An AI companion that remembers each user across conversations.

- Designed and built a multi-user AI companion whose long-term memory stores messages in **importance-scored tiers** (episodic, core) and retrieves context with 3-signal **hybrid retrieval** (semantic 0.5, recency 0.3, importance 0.2) over 384-dim **pgvector embeddings**, backed by PostgreSQL, Redis and a provider-switchable LLM layer (OpenAI, Anthropic, Gemini, Vertex).
- Implemented background reflection through **Celery worker** modules (reflection, memory, import, outreach) that keep each user's identity profile current across conversations.
- Implemented **authentication**, rate limiting, optional at-rest encryption, **streaming fallback** and tool execution guardrails in FastAPI, covered by unit, database and replay tests in **pytest**.
- Deployed the app publicly: Next.js frontend on **Vercel**, FastAPI API on **Render**, **Neon** Postgres, Redis.

fltrd.tech | *TypeScript, Express, Expo, Neon* | Site — 2026 – Present
A filter that turns newsletters and social feeds into one short daily digest based on your interests.

- Grew to **100+ waitlist signups** through direct user interviews with target readers and early distribution.
- Building the product end to end in TypeScript: an **Express** API, an **Expo** mobile app and a **Neon** Postgres backend.
- Building a finite, interest-based digest that gives each reader a fixed set of daily picks instead of an endless feed, with save/skip actions and per-pick feedback designed to train recommendations.

Unravel | *Python, FastAPI, React/Vite, Tree-sitter* | GitHub | Demo — Sep 2026 – Oct 2026
A tool that explains what a codebase does, with answers linked back to the actual source files.

- Built a local-first tool that explains Python and JS/TS codebases with answers linked back to real source files: **Tree-sitter** parsing, a FastAPI backend and a **React/Vite** frontend.
- Shipped **v0.3** with import resolution, so feature maps join frontend routes to API endpoints to backend handlers.

Stash | *React, TypeScript, FastAPI, Spotify API, Supabase* | GitHub | Live — Aug 2025 – Oct 2025
An app that saves songs from Instagram Reels and YouTube straight into your Spotify library.

- Built a share-to-app PWA wiring a **React/TypeScript** client to a **FastAPI** backend, the Spotify API, and Supabase auth and history storage.
- Integrated **ShazamIO acoustic fingerprinting** to recognize songs from the audio itself, not just titles.
- Rebuilt the frontend mobile first with dark and light modes, and added auto-organized playlists by genre with listening stats.

Education

DIT University — May 2026
Bachelor of Technology in Computer Science & Engineering, CGPA 6.77/10 — *Dehradun, India*
12th: 97.8% | 10th: 85.5%

Leadership & Community

FOSS United Dehradun - Co-Organizer: co-founded and organized technical meetups and open-source initiatives for a regional developer community of 100+ members.

Certifications

Google Cloud Digital Leader | Applied LLMs & Generative AI | Building Secure Networks.