

Akash Chauhan

Full-stack developer · Web products and AI systems

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Computer Science student building full-stack applications and AI tools — React interfaces, Node.js and FastAPI backends, background queues, retrieval pipelines, and evaluation.

SKILLS

Languages	JavaScript, TypeScript, Python, C++, Java
Interfaces	React, Tailwind CSS, Vite
APIs and data	Node.js, Express, FastAPI, REST APIs, MongoDB, Redis, BullMQ, Socket.IO
AI and evaluation	RAG, RAGAS, LangChain, ReAct agents, Tool calling, FAISS, Embeddings, AWS Bedrock, Ollama
Delivery and tools	AWS, Docker, Jenkins, Git, VS Code Extension API

PROJECTS

ClosedLoop

Self-healing knowledge base · August 2026

Turns support tickets into reviewed knowledge-base drafts and cited answers.

- I built a seven-queue pipeline for ticket embedding, clustering, drafting, verification, publishing, RAG deflection, and gap detection. Socket.IO streams updates to the interface.
- Draft verification uses three temperature-zero judgments and up to two revision rounds before publication. The support widget returns cited answers, filters PII, and creates tickets when needed.
- Results: 46 integration tests reported passing; 0 SSN/card violations in a 784-record audit; 20% holdout set in the draft-and-verify workflow. These figures describe the project's reported tests and audit, not a guarantee for every input.

Stack: React, Node.js, Express, MongoDB Atlas, Redis, BullMQ, Socket.IO, OpenAI API

Source on GitHub: github.com/Akashrana1001/Closed_loop

Ayu TokPress

AI coding extension · 2026

A VS Code chat extension with five AI providers and local inference.

- I built a shared provider layer with streaming chat, prompt compression, token tracking, and conversation history inside VS Code.
- Supports Anthropic, OpenAI, Gemini, GitHub Copilot, and Ollama. Credentials use the VS Code Secrets API.
- Results: 600+ marketplace downloads; 5 AI providers; Local inference through Ollama. Download count reported in my resume; it is not a live usage counter.

Stack: TypeScript, VSCode Extension API, esbuild, LLM APIs, Ollama

Open VSX listing: open-vsx.org/extension/akashchauhan1001/ayu-tokpress

GreenLedger-AI

Sustainability intelligence · May 2026

Retrieves document evidence while keeping sustainability calculations in Python.

- I built a document retrieval pipeline with Titan Embeddings v2 and FAISS. The language model extracts information; Python calculates GHG, water, and POSH metrics.
- The retrieval setup uses 500-character chunks, 50-character overlap, and top-five retrieval. Model-generated text is kept separate from deterministic calculations.
- Results: 8 BRSR categories evaluated; 1.0 context precision; 1.0 context recall. Scores are from the documented local benchmark, not a claim of general accuracy.

Stack: React, Node.js, Python, FastAPI, AWS Bedrock, FAISS, BullMQ, AWS S3

Source on GitHub: github.com/Akashrana1001/Green_ledger-AI

EXPERIENCE

Software Developer Intern · Uplyx Solution

May 2025 – July 2025

- Built a RAG pipeline with LangChain and AWS Bedrock, exposed through Node.js REST APIs.
- Implemented a custom ReAct loop with structured outputs and tool calling.
- Evaluated 50+ queries with RAGAS to identify retrieval and prompt failures.

ACHIEVEMENTS

GSSoC 2026 – Ranked 2,480 of 47,935 participants – top 6%. Contributor, Project Admin, and Ambassador.

Cognizant Technoverse 2026 – Top 10 finalist among 5,600+ teams across India.

Competitive programming – 400+ DSA problems solved across LeetCode and GeeksforGeeks.

COURSES AND CREDENTIALS

AWS fundamentals of generative AI · October 2026

Oracle OCI Foundations Associate · August 2025

AWS Cloud Practitioner Essentials · August 2025

EDUCATION

Lovely Professional University

Currently studying · CGPA: 6.98/10

B.Tech, Computer Science & Engineering

National Public School – Intermediate, 79% · August 2023

National Public School – Matriculation, 85% · August 2021