

Hetav Shah

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OBJECTIVE

CS Engineer architecting the future of Agentic AI with Opencode, leveraging intelligent subagents and skills to build production-grade LLM systems.

EDUCATION

Adani University

Computer Science Engineering – 8.50 CGPA

Ahmedabad, Gujarat, India

2022 – 2026

Senior School Certificate Examination | Secondary School Examination

New Tulip International School (92.2%) | Udgam School for Children (93.2%)

Ahmedabad, Gujarat, India

2022 | 2020

CERTIFICATIONS

Introduction to Model Context Protocol & Advanced Topics

Dec 2025

issued by Anthropic

AWS Academy Graduate - AWS Academy Cloud Developing

Nov 2024

issued by Amazon Web Services Training and Certification

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript

AI: LLMs, Open-Source LLMs & Embeddings, Agentic RAG, MCP, Agentic AI

Frameworks: React, NextJS, ElectronJS, ExpressJS, HonoJS, TailwindCSS, Zod, Shadcn-UI, OpenAI SDK, OpenAI Agents SDK

Developer Tools: Git, Postman, Bruno, AWS, Cloudflare, Linux, npm, bun, pip, uv, Docker

INTERNSHIP

ProductSquads | A2A, LLMs, Agentic RAG, MCP, Agentic AI

Ongoing

Associate AI Engineer

- Won Jury Special Award in Praveg × ProductSquads Codeathon for developing an A2A compatible Intelligent Document Processing Agent, subsequently engineering it into a production-ready serverless architecture on AWS Lambda using Vision LLMs for automated OCR, classification, and metadata extraction.
- Architected a VLM-driven extraction pipeline using Qwen3-VL to parse complex hierarchical tables from financial PDFs with >90% accuracy.

Meru Fintech | ElectronJS, Microservices, gRPC, TypeScript, React, TailwindCSS

8 Weeks

Full Stack Intern

- Engineered a full-stack Tally integration solution with a desktop application and backend microservice, solving Tally's lack of a cloud-based API for hellobooks.ai.
- Architected a custom OAuth2-like authentication framework with PKCE to ensure secure communication between the web, desktop client, and backend services.
- Managed the full software development lifecycle for the desktop application, including establishing a CI/CD pipeline and building advanced CLI tools for dynamic configuration, logging, and performance optimization.

PROJECTS

Deep Research Agent – Autonomous Web Research Agent | Autonomous Multi-Agent System, Recursive Research Loops, Chain-of-Thoughts

- Engineered an autonomous multi-agent system using Python and FastAPI that performs recursive web research and synthesis, reducing manual information gathering time by 90%.
- Implemented an asynchronous research pipeline with configurable depth/breadth controls, utilizing DuckDuckGo for search and BeautifulSoup for high-performance content scraping.
- Implemented a scalable orchestration layer using OpenAI Agents SDK to coordinate specialized Query, Search, and Synthesis agents for complex problem-solving tasks.

GDPR Compliance Intelligence Platform | Hybrid Retrieval (Dense+Sparse), RRF, Multi-Query Expansion, Multi-Modal ETL

- Architected an enterprise-grade Multi-Modal RAG system combining Hybrid Retrieval (Dense + BM25) and RRF to optimize search relevance for complex legal compliance queries.
- Built a high-fidelity ETL pipeline using unstructured and GPT-4o Vision to ingest complex documents, automatically generating searchable metadata for non-text elements like charts and tables.
- Implemented an advanced Multi-Query Expansion layer and scalable async architecture using Redis and pgvector, significantly improving recall and system throughput.

Clickify – URL Shortener with Analytics | TS, ReactJS, Docker | clickify.hetav.dev | github.com/Hetav21/clickify

- Built a full-stack URL shortener with a comprehensive analytics dashboard that tracks clicks and user device information.
- Developed a backend with custom URL generation and a secure authentication system, leveraging Docker to simplify the development workflow.