

Akhil Sharma

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Full Stack Engineer

Experience

Tars

Full Stack Engineer

June 2024 – Present

Remote

Built and launched Categorizer Gambit v2.0, replacing the legacy intent detection system with confidence-based classification and clarification flows, improving conversation accuracy and reducing misclassification during chatbot interactions.

Developed data extraction (slot-filling) workflows that dynamically capture missing information from natural language conversations, enabling structured lead collection and guided conversational experiences.

Led migration of the knowledge retrieval system from Weaviate to Qdrant and from self-hosted to cloud infrastructure, removing memory constraints, improving search performance, and lowering operational overhead.

Designed a pluggable vector-database abstraction layer supporting multiple providers, eliminating vendor lock-in and enabling scalable future integrations.

Secured production infrastructure by moving EC2 instances from public subnets into a private VPC, deploying an Application Load Balancer in the public-facing layer to handle traffic routing, eliminating direct server exposure to the internet.

Implemented end-to-end distributed tracing for AI APIs using request trace IDs, enabling cross-service debugging and faster incident diagnosis.

Established engineering quality standards by introducing CI pipelines with automated linting, code quality checks, and test enforcement; added 95 unit tests and 15 end-to-end tests with a minimum coverage threshold.

Improved production observability via structured logging, configurable log levels, and full stack traces, significantly reducing debugging time across engineering and support teams.

Tars

Full Stack Engineer Intern

Dec 2023 – May 2024

Remote

Developed scalable web applications using React.js, Node.js, Express.js, MongoDB, TypeScript, and Python (FastAPI).

Resolved 15+ bugs, enhancing product stability and accessibility across the platform.

Applied prompting techniques to improve chatbot answer quality, contributing to a more reliable and user-friendly product.

Skills

Frontend

React.js, Redux, HTML5, CSS3, Tailwind CSS, Bootstrap

Backend

Node.js, Express.js, Python, FastAPI, TypeScript

Data & Infrastructure

MongoDB, SQL, Qdrant, Weaviate, AWS (VPC, ALB, EC2), CI/CD, distributed tracing

Tools

Git, GitHub, Cursor, Claude Code

Soft Skills

Cross-functional collaboration, critical thinking, problem solving

Education

IKG Punjab Technical University

Jalandhar, India

B.Tech, Computer Engineering

Aug 2019 – Jun 2023 · CGPA: 8.1

Gurukul School

Amb, Himachal Pradesh

Class XII

Mar 2018 – Mar 2019 · Grade: 80.4%

Projects

Airbnb Clone

Vacation Rental Platform · July 2023

Full-stack replica with listing management, reservations, favorites, and search filtering. Stack: Next.js, React, Tailwind CSS, Prisma, TypeScript.