

TOSHAN KHULBE

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Education

NorthCap University

B.Tech, Computer Science and Engineering

Gurugram, India

2022 – 2026

Work Experience

British Alumni Network (Primoris Network Pvt. Ltd.)

Jun 2026 – Present

Full-Stack & AI Engineer Intern

Gurugram, India

- Built and deployed an authenticated remote Model Context Protocol (MCP) connector on AWS Lambda, giving LLM clients and agents versioned AI writing profiles over Streamable HTTP/JSON-RPC, backed by Cognito and DynamoDB.
- Architected an end-to-end LLM signal-intelligence pipeline spanning Reddit ingestion, LLM extraction, clustering, and multi-pass digest generation, exposed through CLI and FastAPI APIs for weekly digests across two domains.
- Fixed two production OpenAI rate-limit failures that silently discarded completed work; added per-batch retry/backoff and token-budget-aware trimming, then synthesized **226 of 231** signal clusters across 29 API batches.
- Delivered the AWS profile pipeline across **4 Lambda functions**, API Gateway, Cognito, DynamoDB, and S3, covering intake, profile compilation, identity linking, and authenticated MCP retrieval, with **119 passing Python tests**.
- Engineered OAuth 2.0 Authorization Code + PKCE, RFC 8707 audience binding, multi-claim JWT validation, and a replay-resistant callback relay with exact redirect allowlists and 10-minute one-time state.

Shatakshi.store

Sep 2025 – Nov 2025

Full-Stack Developer (Freelance)

Gurugram, India

- Built and deployed a React.js and Django e-commerce platform as sole developer, from database and REST APIs to UI, with secure authentication, automated order management, and Easebuzz payments for live transactions.

Tri-Parulex Fire Protection Systems

Oct 2024 – Feb 2025

Front-End Developer Intern

Gurugram, India

- Built a Next.js and React inventory app that replaced paper-based tracking with real-time stock visibility.

Muskan Engineers

Jan 2024 – Apr 2024

Front-End Developer Intern

Gurugram, India

- Built a responsive inventory interface and automated manual billing with dynamic HTML, CSS, and JavaScript forms.

Personal Projects

Ideation Agentic System | *LangGraph, Gemini 2.5, MCP, SQLite*

- Built a LangGraph-orchestrated multi-agent Discord assistant with ReAct agents for ideation and market research.
- Gave the agents tools through MCP with local execution for GitHub repository scaffolding and issue creation, plus SQLite momentum scoring and daily Google Calendar briefings.

Multi-Agent Medical Document Ingestion | *Python, EasyOCR, Gemini 2.5*

- Built a four-stage agentic pipeline that turns scanned medical documents into structured clinical data, with validation stages that repair OCR artifacts, standardize units, and flag abnormal values.

RAG vs. Non-RAG Jeopardy Quiz Maker | *Python, Gemini API, Vector DBs*

- Built an evaluation platform benchmarking LLM reliability with and without retrieval augmentation (RAG), measuring hallucination, retrieval precision, and token consumption to expose the accuracy-versus-cost trade-off.

Autonomous Security Turret (1st Place, Technovation) | *YOLOv11, OpenCV, Raspberry Pi, STM32*

- Led computer vision on a four-person team, separating YOLOv11/OpenCV detection from microsecond-precision PID control to sustain **40–45 FPS** on edge hardware, with geofencing, kill-switch, and motor-cutoff safeguards.

Technical Skills

AI Agents & LLMs: Agentic Systems, Multi-Agent Orchestration (LangGraph), MCP, Tool Calling, RAG, Vector Databases, LLM Evaluation, OpenAI GPT-4o API, Gemini API

Languages & Backend: Python, Java, JavaScript, SQL, FastAPI, Django, REST APIs, React.js, Next.js, Git

Cloud & Data: AWS (Lambda, API Gateway, Cognito, DynamoDB, S3), Docker, PostgreSQL, MongoDB, SQLite

AI & ML: PyTorch, TensorFlow, Keras, Scikit-learn, HuggingFace, OpenCV, EasyOCR, Pandas, NumPy

Certifications: LangChain Introduction to LangGraph; Building Agentic AI Systems; Azure AI Fundamentals (AI-900)