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Professional Summary

AI Engineer and GenAI Developer specializing in **Autonomous AI Agents, LLM Applications, RAG systems, Vector Search, and intelligent automation**. Skilled in building production-grade agentic workflows using **LangGraph, LangChain, GPT/Gemini/Claude models**. Proven record of **40% accuracy improvement** and **30% manual effort reduction** in enterprise workflows.

Core Skills

AI Engineering: LLM apps, GenAI pipelines, embeddings, model optimization, prompt engineering, agent evaluation
Agent Dev: LangGraph, LangChain, MCP, CrewAI, multi-agent systems, tool-calling, agent workflows

RAG Engineering: FAISS, Chroma, Pinecone, vector DBs, retrieval tuning

ML/NLP: TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas

LLMs: OpenAI GPT, Anthropic Claude, Google Gemini, Llama

AI Safety: Guardrails, validation layers, hallucination mitigation, human-in-the-loop

Automation: Playwright, async Python pipelines, data extraction

Backend: Python, FastAPI, Flask, Node.js, REST APIs, PostgreSQL, MongoDB

Cloud/Tools: Git, Docker, Vercel, AWS, Firebase, CI/CD pipelines

Frontend: React, Next.js, TypeScript

Education

M.E. Computer Science

Kings Engineering College 2025–Present

B.Tech Information Technology

DMI College of Engineering 2021–2025

CGPA: **8.4/10**

Certifications

- IBM — Machine Learning with Python
- LinkedIn — Full-Stack Development, TypeScript
- HackerRank — 5 Problem Solving, React Developer

Achievements

- 1st — National Hackathon (Alpha College)
- 3rd — SheInnovates Hackathon (WTM)
- 2nd — National Coding Contest (CIT)

Languages

Tamil - Native Proficiency

English - Professional Working Proficiency

Experience

Associate Data Analyst

Sep 2025 – Present

Zinnov (Draup)

Nemili, India

- Designed and deployed **embedding-based similarity models** improving job-role classification accuracy by **90%**.
- Automated enterprise research pipelines using **Python** and **LLM-driven workflows**, reducing manual analysis time by **30%**.
- Built scalable **RAG pipelines** and **semantic search systems** (FAISS + BM25 hybrid) for enterprise workforce intelligence platforms.
- Built the **DRI Agent** — an autonomous AI agent using **Claude API** that converts natural-language requests into validated SQL via a multi-stage agentic pipeline with **reasoning, tool use, and execution control**.
- Implemented **guardrails and validation layers** for safe agent execution, including hallucination detection and placeholder integrity checks.

Tech Intern

Jun 2025 – Sep 2025

Zinnov (Draup)

Nemili, India (3 Months)

- Built automated data extraction pipelines using **Playwright** and **Python**, improving data accuracy by **35%**.
- Designed multi-stage validation workflows for structured data extraction and verification.
- Implemented **LLM-based reasoning pipelines** for job-role classification and skill inference.

Python Intern

May 2024 – Jul 2024

OctaNet Services Pvt Ltd

Remote (2 Months)

- Developed a financial prediction system using **Flask** and **machine learning models**.
- Processed financial transaction datasets using **NumPy** and **Pandas** to generate predictive insights.
- Implemented automated notification systems using **Python email automation**.

Web Development Intern

Mar 2024 – May 2024

VeriTech Software IT Services

Chennai, India (2 Months)

- Developed responsive web applications using **React** and **Tailwind CSS**, increasing user engagement by **35%**.
- Integrated a **Generative AI chatbot** improving user interaction and reducing response time by **50%**.
- Developed a full-stack **MERN expense tracker** with real-time financial visualization dashboards.

Full Stack Intern

Jul 2023 – Aug 2023

Servimos Technologies Pvt Ltd

Chennai, India (2 Months)

- Developed a full-stack **Library Management System** using the **MERN stack (MongoDB, Express.js, React.js, Node.js)**, implementing user authentication, book tracking, and database management features.
- Applied **software development best practices** including modular architecture, API integration, and structured backend services.
- Strengthened practical experience in **full-stack web development**, version control, and real-world project workflows.

Key Projects

- **DRI SQL Agent** — Autonomous AI agent converting natural-language queries to validated SQL using Claude API, multi-agent orchestration, and FAISS-based company resolution
- **AI Calculator** — Next.js + Gemini handwriting-to-equation LLM agent
- **LinkedIn MCP Server** — Multi-agent system retrieving LinkedIn data via MCP tool integration
- **Dynamic AI Agent CLI** — LangGraph Python agent runtime with reasoning, memory, and tool-calling
- **TroothView** — AI image authenticity verification dashboard
- **Phishing Detection Extension** — ML-powered threat detection API