RAHUL DHANAWADE

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PROFESSIONAL SUMMARY

Agentic AI Developer with 3+ years of experience architecting multi-agent workflows and production-grade RAG pipelines. Expert in LangGraph orchestration, tool-calling, and deploying scalable AI services on AWS, reducing operational overhead by up to 70%. Proven ability to bridge the gap between complex business logic and autonomous AI systems.

SKILLS

AI & Agentic Frameworks: LangGraph, LangChain, Multi-Agent Orchestration, Agentic RAG.

LLM Engineering: Tool-Calling, Function Definition, Prompt Engineering, Model Fine-Tuning.

Backend Engineering: Python (Async), FastAPI, Pydantic, RESTful API Design, SQL.

Data & Memory: Pinecone, ChromaDB, PostgreSQL, SQLAlchemy, ETL Pipelines.

Infrastructure & DevOps: AWS (ECS, Lambda, S3), Docker, CI/CD (GitHub Actions), n8n, AI Observability (LangSmith).

PROFESSIONAL EXPERIENCE

Vaatify (UK)
Software Engineer   *September 2025 – Present*

- Architected "Mail by Vaatify": Developed an autonomous outreach engine using LangGraph that performs real-time lead research, drafts hyper-personalised content, and handles email sequencing.
- Implemented Multi-Agent Systems: Designed a "Researcher-Writer" agent pair that reduced manual campaign preparation time by 50% while increasing response rates.
- Production Deployment: Managed the full lifecycle of AI services on AWS ECS, utilising Docker containers and automated CI/CD pipelines for 99.9% uptime.

Freelance AI & Automation Consultant (UK / Remote)
Independent Consultant   *April 2024 – August 2025*

- Built an AI-powered Knowledge Base using Python and FastAPI, allowing 20+ internal users to query complex regulated documents using natural language.
- Launched a RAG (Retrieval-Augmented Generation) pipeline that indexed 500+ documents, reducing manual search time by 40% and improving answer accuracy.
- Optimised AI performance by fine-tuning data "chunking" and retrieval logic, successfully balancing high-quality responses with fast processing speeds.
- Engineered secure data layers using SQLAlchemy, ensuring the AI followed strict role-based access rules and prevented unauthorised data queries.

Supervity.ai *(AI-powered automation platform)*
Sr. E Workforce Developer   *March 2020 - August 2022*

- **Workflow Automation:** Architected 20+ end-to-end automations for Fintech/Insurance clients using n8n and Python, saving 200+ manual hours monthly.
- **Reliability Engineering:** Reduced system failures by 70% by implementing automated retry logic and OAuth2 security protocols.
- **Scalable ETL:** Developed pipelines to process data from diverse APIs and NoSQL databases, ensuring 100% data consistency.
- **Client Onboarding:** Created a library of reusable automation modules, accelerating new client onboarding by 40%

Travelodge Hotels Ltd (UK)
Team Member (Operations & Support) (Part-time)   *December 2022 – August 2025*

- Managed high-volume night operations and data-driven workflow optimization in a fast-paced environment.

EDUCATION

University of Hertfordshire, UK
MSc in Business Analytics | Sept 2022 – Dec 2023
- Implemented end-to-end ML pipelines including feature engineering and hyperparameter tuning.

Savitribai Phule Pune University, India
Bachelor of Engineering in Mechanical Engineering | Aug 2015 – May 2019
- Foundation in quantitative problem-solving and MATLAB-based data-driven analysis.