

RAHUL DHANAWADE

Backend & AI Engineer

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PROFESSIONAL SUMMARY

Backend and AI engineer with four years of experience building backend services and data systems, and integrating large language model features into production applications. Experience covers REST API development with FastAPI and Pydantic, RAG and agentic workflows with LangChain and LangGraph, and ELT pipeline development on Snowflake using dbt and Fivetran. Comfortable owning a feature from data model through deployment on AWS and Azure.

TECHNICAL SKILLS

Backend Engineering: Python, FastAPI, Pydantic, RESTful APIs, PostgreSQL, authentication, async job processing

GenAI & LLM Systems: RAG pipelines, LangGraph, LangChain, tool calling, prompt engineering, Pinecone

Data Engineering: Snowflake, dbt, Fivetran, Apache Airflow, BigQuery, ETL/ELT, data modeling, SQL

Cloud & Infrastructure: AWS (ECS, S3, Glue, RDS), Azure (OpenAI, Speech, Functions, App Service), Docker, Git, CI/CD

Tooling & Collaboration: Jira, Confluence, Notion, GitHub, Postman, draw.io

PROFESSIONAL EXPERIENCE

Gen AI Engineer | Programming.com

Mar 2026 – Present

- Built core backend for a CRM platform: pulled data from third party APIs, mapped and synced it against internal schemas, stored it in the database, and exposed it through FastAPI endpoints tested in Swagger with Pydantic validation.
- Built speech to text transcription and AI insight features on top of CRM data using Azure Speech Services and Azure OpenAI.
- Developed an email extraction feature that parses incoming emails, identifies key fields, and writes structured records into the CRM automatically, removing a manual data entry step.
- Independently deployed and managed the project on Azure, including App Service, Azure Active Directory, and the database, and used Azure DevOps to maintain the repository and CI/CD pipelines.

Gen AI Developer | Vaatify.com

Apr 2024 – Dec 2025

- Built a multi step agentic outreach pipeline in LangGraph, with separate agents for prospect research, message drafting, and sequencing coordinated through LLM tool calling.
- Set up RAG pipelines with Pinecone, including chunking, embedding, and indexing strategy, reducing manual search time by 40 percent for over 20 internal users across 100 documents.
- Wrote and tested prompt templates with Pydantic based output validation so that LLM responses were parseable before being written to the database or shown in the UI.
- Integrated LLM services with internal REST APIs and structured the codebase into role separated components with explicit state management and failure isolation.

Sr. Data Engineer | Supervity.ai

Mar 2020 – Aug 2022

- Built ELT pipelines using Fivetran into Snowflake and wrote over 40 SQL based dbt models for insurance reconciliation, claims validation, and financial audits.
- Wrote automation scripts to pull, transform, and load clinical and financial data into the warehouse on a scheduled basis.
- Orchestrated ingestion, transformation, and data quality checks in Airflow, reducing the reporting cycle from days to minutes.
- Managed the AWS data stack (S3, Glue, RDS) supporting the warehouse and validated incoming data to catch schema drift early.

EDUCATION

MSc in Business Analytics

Sep 2022 – Dec 2023

University of Hertfordshire, UK

- Built end to end machine learning pipelines covering feature engineering, model selection, and hyperparameter tuning on real datasets.

BEng in Mechanical Engineering

Aug 2015 – May 2019

Savitribai Phule Pune University, India