

LAKSHYA JAIN

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SUMMARY

GenAI Full Stack Engineer with 4+ years of experience building scalable web applications, AI/ML integrations, and data engineering pipelines. Proficient in Python, Django, ReactJS, and AWS, with deep expertise in optimizing search algorithms and implementing GenAI solutions (RAG, Agents). Experienced in full-stack development (GraphQL, REST), database modeling, and deploying cloud-native microservices to production environments.

SKILLS

Programming & Full Stack:

- **Languages:** Python (Advanced), JavaScript, SQL, HTML, CSS
- **Frameworks:** Django, Flask, ReactJS, NodeJS, GraphQL, WebSockets
- **Data & AI Libraries:** Pandas, NumPy, Scikit-learn, LangChain, TensorFlow

Cloud & Data Infrastructure:

- **Cloud:** AWS (Bedrock, Glue, Lambda, OpenSearch, EC2, S3, DynamoDB), Azure (AI Foundry), GCP (Cloud Run, Vertex AI), Genesys Cloud
- **Databases:** PostgreSQL, MongoDB, CloudSQL, Vector Databases (Pinecone/Milvus)
- **DevOps:** Docker, Kubernetes, Jenkins, GitHub Actions (CI/CD), Kafka, Linux, Terraform

Core Competencies:

- GenAI (RAG, MCP), Large Language Models (LLMs), Data Modeling, System Design
- API Design (REST/GraphQL), Search Optimization, Microservices Architecture

EXPERIENCE

Accenture

Senior Software Engineer (GenAI Specialist)

Nov 2024 – Present

Chennai, India

- Architecting **GenAI POCs** and **Multilingual AI Systems** using **RAG** architectures, **Amazon Bedrock**, and **Model Context Protocol (MCP)**.
- Developed full-stack features integrating **ReactJS** frontends with Python backends via **REST** and **WebSockets** for real-time AI responses.
- Built and deployed containerized microservices using **Docker** and **GitHub Actions**, ensuring robust **CI/CD** pipelines for beta production releases.
- Designed scalable data ingestion pipelines for **Vector Databases**, optimizing context retrieval for LLM applications.

AuthBridge Research Services

Software Engineer

Dec 2022 – Nov 2024

Gurugram, India

- Improved **Search Algorithm** accuracy by 30% by enriching 40% more relevant **Solr** data and applying custom **Machine Learning** ranking logic.
- Designed and optimized **Relational Database Schemas** and complex **SQL** queries, reducing query latency by 25% for high-volume datasets.
- Developed and maintained full-stack web applications using **ReactJS** and **Django**, ensuring responsive UI and secure API endpoints.
- Orchestrated production database deployments on **AWS RDS**, managing data migrations and performance tuning.

- Built a **PDF Intelligence System** achieving 90% parsing accuracy using OCR and structured data extraction scripts.

Innovana Thinklabs
Software Developer

Mar 2022 – Dec 2022
Jaipur, India

- Optimized backend **APIs** using **Python Django**, reducing response time by 10% through efficient query caching.
- Built reusable UI components in **ReactJS**, improving page load speed by 10% and standardizing frontend architecture.
- Implemented an analytics dashboard using **Grafana** and **AWS CloudWatch** for real-time system monitoring.

Forsk Technologies
Junior Data Scientist

Aug 2021 – Mar 2022
Jaipur, India

- Engineered real-time data streaming pipelines using **Apache Kafka** to process high-velocity logs across distributed systems.
- Collaborated on data modeling requirements and performed rigorous unit testing for deployed analytics modules.

PROJECTS

Enterprise GenAI Knowledge Assistant

2024

- Built a **RAG-based** conversational assistant capable of querying internal documentation with high accuracy.
- **Stack:** Python, LangChain, OpenAI API, Pinecone (Vector DB), ReactJS, Docker.
- Implemented **Hybrid Search** (Keyword + Semantic) to improve retrieval relevance for technical domain queries.

Telecom Data ETL Pipeline

Jun 2021 – Jul 2021

- Developed an automated ETL scheduler for large-scale telecom data extraction and processing.
- **Stack:** Python, Airflow, MongoDB, Kafka, Elasticsearch, Docker.

Fake News Detection (Deep Learning)

Jan 2021 – Feb 2021

- Trained and deployed a **Deep Learning** model (LSTM/RNN) to classify news articles with 92% validation accuracy.
- **Tools:** Python, TensorFlow, NLTK, Google Colab.

EDUCATION & CERTIFICATIONS

Jain University

Nov 2023

Master of Computer Applications (MCA), Bengaluru, India

Bhartiya Skill Development University

Jul 2021

Bachelor of Vocational Studies (AI & ML), Jaipur, India

Certifications: AWS Fundamentals (Serverless), AI For Everyone (Andrew Ng), Data Engineering Foundations, Deep Learning Specialization.