

Shibin Biji Thomas

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Education

San Jose State University

Jan 2025 – Present / San Jose, CA

Masters in Applied Data Science

- **Coursework:** Data Warehouse & Pipeline, Machine Learning, Deep Learning, Data Visualization, Software Engineering Processes, Data Mining, Deep Learning and Gen AI.

Experience

Software Engineer, Accenture Pvt Ltd.

March 2023 – Dec 2024

- Achieved **98% data accuracy** by implementing custom validation logic and test automation, ensuring compliance and consistency across datasets from multiple sources.
- Designed and implemented scalable database solutions on **AWS (EC2)** utilizing advanced SQL partitioning and index optimization techniques, resulting in **40% improved query performance and 25% cost reduction**
- Automated data collection and processing **workflows using Python scripts, reducing manual work by 40% and increasing productivity.**
- Integrated **Elasticsearch and Kibana** to build real-time log monitoring dashboards, enabling faster root cause analysis and improving issue detection time **by 30%.**

Associate Software Engineer, Accenture Pvt Ltd.

July 2021 – March 2023

- Implemented robust database transaction logic leveraging **ACID principles and RBAC policies**, ensuring data integrity and security compliance
- Collaborated with cross-functional teams to gather requirements and deliver insights that revamped process workflows and **decreased costs by 15%.**
- Implemented CI/CD pipelines using Jenkins for an insurance analytics platform, **reducing build and deployment time by 60%** and enabling automated testing across multiple environments

Technical Skills

- **Languages:** Python, Java, C, C++, HTML, CSS, JavaScript, PowerShell
- **Database and Query Language:** MySQL, NoSQL, MongoDB, PostgreSQL, Snowflake, AWS, Azure, Apache
- **Frameworks/Libraries:** Matplotlib, NumPy, Pandas, PySpark, Seaborn, React.js, Node.js
- **DevOps:** AWS-CDK, Docker, Github Actions, Kubernetes
- **AI/ML:** LLM Integration, RAG Pipelines, Hugging Face, Vector DBs
- **Others:** Agile, Backend Development, Communication Skills, Power BI, Tableau, Problem Solving, Postman

Academic Projects

GlobalGuide AI Travel Planner

[GitHub](#)

- Developed an advanced AI application leveraging **Groq LLM and LangGraph** for comprehensive, personalized travel itinerary generation, integrating real-time data from various APIs.
 - Architected and implemented a robust agentic workflow using **LangGraph enabling** multi-step AI reasoning and dynamic tool utilization across **9 distinct custom tools**. Built a full-stack solution with a high-performance **FastAPI backend** handling API requests in milliseconds
- Technologies Used:** Python, FastAPI, Streamlit, Groq LLM, LangGraph, Pydantic, Requests, OpenWeatherMap API, Google Places API, ExchangeRate-API.

AI Medical Chatbot with RAG

[GitHub](#)

- Deployed a medical chatbot powered by **RAG architecture** to assist patients and healthcare providers by retrieving and summarizing relevant medical documents in real time.
 - Utilized HuggingFace Transformers for text embedding and Faiss for vector search, achieving **91% semantic retrieval accuracy across 5K+ healthcare records.**
- Technologies Used:** HuggingFace, Faiss, LangChain, Mistral 7B, Streamlit, Python

Achievements

- **Accenture Growth Catalyst Award** - Recognized for contributing exceptional value to high-growth client initiatives.
- **Recognition Award – Phase 2A Go Live Delivery** - Honored for teamwork, and perseverance in delivering Phase 2A Go live. Recognized for commitment to innovation, and excellence during a critical project milestone.