Rishi Naidu

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Education

University of Texas at Dallas

Bachelors in Science, Computer Science *Expected Graduation*: May 2026

Skills

Programming Languages: Python, C/C++, Java, SQL, R
Web & JS Frameworks: Node.js, React, JavaScript, HTML/CSS
Databases: MySQL, PostgreSQL
Cloud Platforms: AWS, Google Cloud Platform (GCP)
AI/ML Frameworks & Tools: TensorFlow, gRPC, OpenCV, LangChain, Generative AI (GenAI), OpenAI, StreamLit, Chroma
Developer Tools: Git, Docker, Visual Studio, VS Code, PyCharm, IntelliJ, Eclipse, Protobuf

Experience

App Developer Intern | Boardwalk Pipelines, Houston, TX | May 2025 – Aug 2025

- Supported IT migration processes involving AWS technologies like Event Bridge, Lambda, and State Machines, transitioning applications into production.
- Enhanced and maintained applications including ForeSight, StorageForecast, Burn Notices, and Power Plant Load Forecaster using AWS SageMaker, Lambda, AI/ML, and Power Automate.
- Utilized SQL for data querying, analysis, and extraction.
- Created and managed Power BI reports for data modeling and visualization.
- Participated in monthly Data Analytics and Data Science user groups, delivering presentations on relevant topics.
- Developed AWS cost alerts and Power BI reports to monitor and manage service expenditures effectively.

Projects

1. **RAG Assistant for Q&A on PDF Files –** Internal Learning Project | Fall 2024 | Langchain, OpenAI
   Developed a Retrieval-Augmented Generation (RAG) assistant to answer questions based on content extracted from PDF documents. The system integrates vector stores and embeddings for information retrieval and uses GenAI models to generate context-aware responses. Built with Python, LangChain, OpenAI GPT models, and Chroma for vector storage, the project features a user-friendly interface created with Streamlit.
2. **Music Genre Classification Application** – AIM UTD Club | Fall 2024 | Python, AWS, TensorFlow
   Created a music genre classification app using Python, TensorFlow, and Librosa, employing a CNN model for data preprocessing and feature extraction. The project features a React interface for uploading audio and viewing classification results. Version control was managed using GitHub, and the application was deployed on AWS, utilizing EC2 and S3 for scalability.
3. **Distributed Systems Key-Value Store** – Mar 2023 | Jun 2023 | Python, gRPC, Protobuf, Docker
   Designed and implemented a scalable key-value store using distributed systems architecture, with gRPC and Protobuf for efficient microservice communication. Ensured data integrity through leader election and replication protocols. The system was containerized using Docker, enabling scalable and maintainable deployment.
4. **Social Media Sentiment Analysis** – Oct 2022 | Feb 2023 | Python, TensorFlow, Flask, React
   Developed a sentiment analysis web application for social media posts using NLP and deep learning. The model, built with TensorFlow, classifies text sentiment as positive, negative, or neutral. The project integrates a Flask API with a React frontend for interaction and visualization and was deployed on AWS for scalable infrastructure.

Leadership Experience

Vice President, Minecraft Java Edition Club | UTD | Fall 2024

Organized and hosted weekly Minecraft events for 100+ members, leading collaborative building projects and in-game competitions that promoted teamwork and problem-solving. Managed the club's server, ensuring smooth gameplay and resolving technical issues. Increased membership by 20% through effective social media promotions and engaging club activities.