Sreevarshan (Sree) Sathiyamurthy

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EDUCATION

Northeastern University - M.S. in Data Analytics Engineering · ***GPA 3.95/4.0*** **Dec 2026**
Anna University - B.E. in Electronics and Communication Engineering · ***GPA 3.5/4.0*** **May 2024**

EXPERIENCE

Software & Data Engineer Intern | RightRev - **USA** **Jan 2026 – Jul 2026**

- Developed Snowflake Cortex AI agents, SQL stored procedures, and MCP integrations to automate financial reporting, enabling teams to retrieve accurate revenue insights without manual data analysis
- Migrated 18 AI agents to production, audited 200+ Snowflake views, and implemented OAuth, RBAC, and REST APIs to protect customer data and ensure secure, reliable reporting
- Integrated Salesforce CRM APIs with 5 AI agents and built automated SQL and JSON validation tests to verify data accuracy, troubleshoot integration failures, and ensure reliable financial reporting
- Built frontend features and REST API integrations for financial reporting, working with senior engineers to review changes and resolve integration issues

Data Analyst & Engineer | Flare Innovation - **Chennai, India** **Jan 2024 – Aug 2024**

- Developed Power BI dashboards integrating PostgreSQL and Airtable APIs to track operational KPIs and improve reporting efficiency for engineering and business teams
- Engineered Python ETL pipelines processing 1M+ IoT records using PostgreSQL and Airtable, with automated PyTest schema validation to improve data quality
- Improved device reliability through Python-based sensor anomaly detection and SQL transformations, using PySpark to optimize large-scale data processing
- Implemented GitHub Actions CI/CD pipelines for automated testing and builds, containerizing data workflows with Docker to ensure consistent and reliable deployments

Machine Learning Engineer | Sri Sairam Techno Incubator Foundation - **Chennai, India** **Jun 2022 – Oct 2022**

- Secured 6th place globally among 320+ teams at the Singapore AUV Challenge by developing autonomous underwater navigation using YOLOv5 and OpenCV to detect objects and navigate underwater environments
- Developed reinforcement learning-based controls using ROS and Gazebo, achieving 92% success in obstacle avoidance, navigation, and object recovery to improve underwater autonomy

PROJECTS

AEGIS AI - Real-Time Fraud Detection Platform

- Built a real-time fraud detection platform using Python, Kafka, PostgreSQL, and machine learning to analyze 143,000+ simulated transactions, identify suspicious activity, and help prioritize financial risks
- Developed an interactive investigation dashboard with explainable risk scores, automated data validation, and CI/CD pipelines to help users investigate fraud alerts and maintain reliable system performance

NEXUS AI - Autonomous Research & Data Analysis Platform

- Built an AI research platform using Python, LangGraph, and RAG to analyze documents, search the web, and generate source-backed reports with verified citations
- Developed a full-stack application with FastAPI, Next.js, and PostgreSQL, integrating AI agents and interactive analytics while running end-to-end smoke tests

Charlie - MBTA Real-Time Chatbot - *3rd Place, Google MLOps Expo*

- Engineered real-time ETL pipelines using Python, Apache Airflow, PySpark, and Azure to process live MBTA transit feeds and generate features for delay prediction
- Deployed Dockerized Azure ML services with autoscaling and automated retraining; integrated Prometheus monitoring and Slack alerts to detect and troubleshoot service failures
- Built a GPT-powered RAG assistant for live transit, achieving 92% retrieval precision on routes and schedules

SKILLS & CERTIFICATIONS

Languages & Engineering : SQL, Python, REST APIs, Apache Spark (PySpark), Apache Airflow, ETL/ELT
Cloud & Databases : Snowflake, BigQuery, PostgreSQL, Microsoft Azure (Azure ML)
AI & Analytics : Tableau, Power BI, Dashboard Design, Data Visualization, Semantic Layers, RAG
Quality & DevOps : Data Quality, RBAC, OAuth, Git, GitHub Actions, CI/CD, Prometheus, PyTest
Certifications : Google Data Analytics Professional, Cisco Data Analytics, AWS Cloud Practitioner Essentials