

ADITYA SAIRAM GOVINDAN

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EDUCATION

Northeastern University, Boston

Master of Science – Computer Science

Expected Dec 2025

Relevant Coursework: Algorithms, Programming Design paradigm, Introduction to data management and processing, Data mining techniques.

Anna University, Chennai

Bachelor of Engineering – Computer Science and Engineering

April 2017 - May 2021

Relevant Coursework: Data Structures, Operating Systems, Distributed Systems, DBMS, Cloud Computing, Artificial Intelligence, Compiler Design.

TECHNICAL SKILLS

Programming Languages: Java, Python, Golang, SQL, JavaScript, C++, Bash Scripting.

Data Management Tools: Apache Kafka, MySQL, Oracle, MongoDB, Cassandra, Snowflake, Redis, Denodo.

Frameworks/Technologies: Django, TensorFlow, AWS (S3, EC2, lambda), Docker.

Tools & Libraries: Git, PySpark, NumPy, SciPy, TensorFlow, Matplotlib, Scikit- Learn, VS Code.

EXPERIENCE

Flex Pvt. Ltd, Chennai

Software Engineer – Data and Analytics

Jun 2021 - Dec 2023

- Optimized Report Performance by enhancing SQL logic within SAP Business Objects reports using Denodo Virtualization to **improve data retrieval** by 70%.
- Collaborated with users to identify requirements, leading the **design and execution of advanced Data Engineering strategies** that increased report generation efficiency by 50%.
- Coordinated with the Front-End Development team to engineer and **implement user-centric dashboards** using **Python, Apache Spark, and Tableau**, enhancing daily operational performance on the site.
- Led a team of six to successfully migrate more than 500 reports from SAP Business Objects to Denodo in the Americas region, streamlining project execution.
- Enhanced data processing speeds by transferring **SQL logic from Teradata to Snowflake**, leading to significant improvements in data movement and real-time data fetch rate by 65%.
- Developed an **NLP software to convert SQL to Virtual Query Language using python and Angular**, and optimized the code using **Advanced Regular expressions** that increased the conversion rate to 90% for complex queries resulting in slashing 1000 hours of manual work.

R.M.D. Engineering College

Research Assistant –Big Data Center Of Excellence

Jan-2019-March-2020

- Led Natural Language Processing initiatives at the University's Big Data Center Of Excellence, extracting invaluable insights from extensive public posts and social media data.
- Contributed to the "Real-Time Mapping Of Epidemic Spread" research project, employing advanced CNN algorithms and Big Data management systems to predict epidemic spread from historical and current data.

RELEVANT PROJECTS

Stock Portfolio Management System (*java, Swing, Alpha Vantage API, Design Patterns*)

March 2024

- Enhanced a stock portfolio management system by implementing dollar-cost averaging and flexible investment strategies, supporting automated long-term investments and diversified portfolio creation.
- Developed a GUI using Java Swing that allows users to create, manage, and query flexible portfolios, ensuring intuitive interaction and adherence to MVC architecture.
- Integrated Alpha Vantage API for real-time stock data retrieval, supporting fractional share purchases and periodic investments in line with market closures.

Website Monitoring Tool ([Link](#)) (*Python, Redis, DynamoDB, boto3*)

June 2024

- Created a Django-based tool to track user actions, storing data in DynamoDB for scalability and using Redis for caching.
- Designed a front-end dashboard to visualize key metrics, improving website performance monitoring.

Bank Transaction Management System ([Link](#)) (*SpringBoot, MySQL, HTML/CSS/Javascript*)

March 2020

- Created a full-stack application using Java Spring Boot, MySQL, and HTML/CSS/Javascript, resulting in efficient management of CSV data uploads, running balance calculations, and secure user transaction views and downloads.
- Implemented admin functionalities for CSV data upload and running balance calculations, and user functionalities for transaction viewing and CSV downloads, delivering a user-friendly system.

TECHNICAL BLOGS.

- [Hands-On Cloud-Native Exploration: A Primer on Golang and Docker.](#)
- [Cloud Native Exploration Part 2: Connecting Golang with Postgres Using Docker](#)