

Sai Sruthi Silvery

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Education

Northeastern University, MS in Information Systems

Jan 2024 – Dec 2025

• **Coursework:** Data Science and Methods, Web Design, DBMS, Big Data

GPA: 3.7/4.0

Sreenidhi Institute of science and Technology, B.Tech in Computer Science

Jun 2018 – May 2022

Skills

Languages: Python, C, C++, Java, SQL.

Data Ingestion and processing : Apache Kafka, spark, Azure Event Hub.

Business Intelligent and Visualization tools: Apache Airflow, dbt (Data Build Tool), Power BI, Tableau,

Databases & ETL: MySQL, MongoDB, PostgreSQL, MS SQL Server, Excel, Oracle DB

Artificial Intelligence: Machine Learning algorithms and tools, Deep Learning, Natural Language Processing, Big Data.

Cloud Technologies: AWS, Azure, Google Cloud, Terraform.

Certifications: AWS Cloud Solutions Architect Associate, Oracle Cloud Gen AI 2024 professional certified, Information Technology Infra Library Certificate in IT Service Management

Professional Experience

Cloud Engineer, Hewlett Packard Enterprise – Bangalore, IN

July 2022 – Dec 2023

- Designed scalable and cost-efficient AWS infrastructure using **EC2**, **S3**, and **RDS**, reducing operational costs by 25%. Integrated **Auto Scaling Groups** with load balancers based on traffic patterns, ensuring performance during peak loads
- Managed Terraform Statefiles using remote backends like S3 for consistent state management. Utilized monitoring tools such as Splunk and AWS CloudWatch to identify bottlenecks and reduce incident resolution time by 30%.
- Implemented IAM policies, VPC configurations, and AWS Shield, resulting in zero security breaches. Enhanced data protection by enabling encryption at rest and in transit using AWS Key Management Service (KMS) and SSL/TLS protocols.

Cloud Engineer Intern, Hewlett Packard Enterprise – Bangalore, IN

Jan 2022 – Jun 2022

- Kubernetes & Container Management: Built and managed Kubernetes clusters, supporting GPU workload deployment for machine learning applications, which increased processing efficiency by 20%.
- Constructed AKS Hybrid clusters with GPU workload support on Azure Stack HCI 23H2, enabling advanced computational tasks and improving performance for **machine learning and AI** applications.
- Deployed Azure Stack HCI Standard & Stretched Clusters for 15 sites at various locations

Data Engineer Intern, TSSPDCL – Hyderabad, IN

Jan 2021 – July 2021

- Implemented ETL pipelines on Azure Databricks to process both streaming and batch data from Azure Data Lake Storage (ADLS), improving data availability by 25%. Leveraged Spark within Azure Databricks to handle terabytes of data.
- Ingested data from disparate data sources using a combination of SQL, Google Analytics API and Sales API using Python
- Assisted in migrating on-premises Oracle databases to Azure Synapse Analytics to improve data scalability and performance. Documented migration workflows and created step-by-step guides to assist future teams.

Projects

Food Delivery Applicationn (JavaScript, CSS, HTML, React, Firebase, Redux, Node.js, npm)

- Designed Delivery Web app integrating with RESTful APIs, integrated google maps to track the order delivery details
- Integrated notifications for order status updates throughout the delivery process using kafka SNS.
- Implemented Google single sign on authorization, enhancing security with personalized access for users

Time Series Analysis with Stock Price Data (Matplotlib, Statsmodels, PySpark, Databricks)

- Conducted time series analysis on stock price data using Python libraries such as Pandas, NumPy, Matplotlib, Seaborn.
- Augmented Dickey-Fuller (ADF) test to check stationarity and applied transformations to achieve a stationary series.
- Leveraged Azure Databricks for processing large time-series datasets and applied PySpark for parallelized ETL and analysis.

Visualizing the Complexities of minor crime (Python, Tableau, Matplotlib, Seaborn)

- Conducted data analysis using visualization tools to create interactive dashboards from a cross-national ISRD-2 study
- Discerned robust associations across nations, showcasing influence of family dynamics & victimization on minor crimes