

SRUTHI THANDOJU

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EDUCATION

- **Florida Institute of Technology**
• Master of Science in Computer Science
- **G Narayanamma Institute of Technology and Science**
• Bachelor of Technology in Information Technology

Aug 2023 - May 2025

2018-2022

WORK EXPERIENCE

Software Engineer at Telstra

July 2022 - Aug 2023

- **Engineered** high-performance ETL pipelines using Databricks (Apache Spark), processing terabytes of data daily and **slashing daily**, reducing data processing time by **40%** and enabling faster decision-making for business intelligence..
- **Optimized PostgreSQL data models and warehouse architecture** to improve query performance by **30%**, ensuring real-time analytics for customer insights and operational efficiency.
- Designed and managed 5+ Cosmos DB instances, integrating them with Databricks and HDFS, ensuring 99.9% data availability for critical business applications..
- **Implemented CI/CD pipelines** using **Git and Azure DevOps**, reducing deployment failures by **60%** and automating release cycles, which improved software delivery speed and reliability.
- **Automated enterprise workflows** with **Microsoft Power Automate**, streamlining manual data processing tasks and reducing operational overhead by **50%**, allowing teams to focus on strategic initiatives.
- **Maintained and monitored data pipelines**, proactively resolving issues and ensuring **99.9% system uptime**, leading to uninterrupted data availability for analytics teams.
- **Built robust ETL pipelines in Azure Synapse Analytics**, transforming and modeling large datasets for business intelligence, reducing query execution time by **35%**, and accelerating financial and operational reporting.
- **Developed Informatica PowerCenter ETL workflows**, extracting data from **5+ disparate sources**, transforming datasets with **99.5% accuracy**, and ensuring high-quality data integration for business intelligence platforms.
- **Integrated Informatica Cloud Data Integration** for real-time data synchronization between **Azure cloud and on-premise systems**, reducing latency by **45%** and ensuring seamless data flow across platforms.
- Designed and deployed RESTful APIs for seamless integration with front-end applications. Built web applications using **ASP.NET MVC/Core** with SQL Server backend for data-driven business solutions.
- Optimized stored procedures and queries in **SQL Server** to enhance performance and reliability.
- Interpreted and implemented program design specifications using UML diagrams and system modeling tools.
- Collaborated with teams to convert business requirements into scalable software models and technical specifications.
- Integrated Terraform into CI/CD pipelines using Azure DevOps, enabling automated and version-controlled infrastructure deployment and reducing manual configuration errors by 70%.

Business Trainee at Telstra

Feb 2022 - July 2022

- **Developed complex SQL queries and Python scripts** for data transformation, improving **query execution times by 25%**, enabling faster data retrieval for business reporting..
- **Implemented Spark-based data processing pipelines**, increasing large-scale data processing efficiency by **30%**, which enhanced analytics capabilities for the data science team.
- **Collaborated with business stakeholders** to gather data requirements and deliver actionable insights, reducing inconsistencies in financial and operational reporting by **20%**, improving data-driven decision-making.

TECHNICAL SKILLS

- **Programming Languages/ Frameworks:** C, C++, Java, Python, JavaScript, Bash, React, Express.js, Node.js, Flask, Django, Angular, Spring Databases/ Web Development: MySQL, SQL Server, Oracle, MongoDB, Amazon DynamoDB, HTML, CSS, PHP
- **Cloud Technologies:** Azure(ADLS, Databricks, Synapse Analytics, CosmosDB,), AWS(EC2, RDS, Lambda, S3, API Gateway, Amazon RedShift), Kubernetes, Terraform, Azure Devops, Purview.
- **Machine Learning:** NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, AzureML, scipy.spatial, OpenCV, Matplotlib
- **Tools/Services:** Git, Docker, Apache Spark, Excel, Tableau, PowerBI, REST API, JSON, GitLab, Jupyter Notebook, VS Code, IntelliJ Idea, Hadoop, Informatica, SSIS, Data Warehousing, Data Modeling, ETL pipeline development.
- **Agile Tools:** Confluence, Jira

PROJECTS

1. **Advanced Anomaly Detection** Nov 2024
Engineered data pipelines on AWS platform for processing and analyzing large-scale cybersecurity data. Implemented ETL processes for data cleaning and transformation using Python and AWS services. Developed scalable data infrastructure for real-time anomaly detection
2. **Zero Shot Learning** April 2024
Developed a CNN using few-shot learning to recognize handwritten digit "9" from MNIST data, trained with only 5 examples of "9" while retaining all other digits (0-8) in the training set. Preprocessed data and designed a sequential CNN with convolutional, max pooling, dropout, and dense layers, implementing in TensorFlow, Keras, and OpenCV. Evaluated model accuracy and analyzed confusion with similar digits, such as "7" and "4," to improve performance in data-scarce environments
3. **Covid-19 Data Analysis** Sep 2022
Built end-to-end ETL pipelines using Azure DataBricks for processing COVID-19 data across Europe. Designed data models and implemented data warehousing solutions for efficient querying. Created automated data refresh mechanisms for real-time reporting in PowerBI

CERTIFICATIONS

- **AWS Academy Graduate - Data Engineering** | AWS Academy
- **AWS CLOUD PRACTITIONER**
- **AZ-104 Azure Administrator Certification**

Dec 2024

July 2024

Sep 2022