

Lalitha Samyuktha Jayanthi

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Visakhapatnam

Value Proposition

Data Science graduate with a strong foundation in software development, data engineering, and cloud technologies. Passionate about building scalable solutions, with hands-on experience through academic projects involving Java, Python, SQL, cloud platforms like AWS and Azure, and database management. Eager to contribute to IIoT implementations, data migrations, and cross-functional teams while meeting SLAs and delivering high-quality code.

Education

- B. Tech | CSE-Data Science | Avanthi Institute of Engineering and Technology | 2025 | 7.88 CGPA
- Intermediate | Sri Chaitanya Jr. College | 2021 | 9.12 CGPA
- Tenth | Sri Chaitanya School | 2019 | 9.5 CGPA

Technical Proficiencies

- Programming Languages: Java, Python, JavaScript, C#, .NET, SQL, PySpark
- Databases: Oracle Database, MS SQL Server, NoSQL (Cosmos DB, DynamoDB)
- Cloud Platforms: AWS (EC2, S3, Lambda), Azure (Data Factory, Databricks)
- Operating Systems: Linux (Ubuntu, CentOS), Windows
- Tools & Practices: ETL Processes, APIs, Unit Testing, Code Reviews, DevOps Tools (Jira, Git), Technical Documentation
- Other: Application Architecture, Mobile Platforms (iOS, Android), IIoT Solutions, Data Modeling, System Configuration

Projects

IIoT Solution for Industrial Monitoring

- Developed a full-stack IIoT application using Python and Java to collect, process, and analyze sensor data from simulated industrial devices.
- Implemented data migration via ETL processes with PySpark and Azure Data Factory, migrating data from on-premises SQL Server to Azure Cosmos DB.
- Integrated APIs for real-time analytics and deployed on AWS EC2 with Linux-based configuration, ensuring scalability and security.
- Performed unit testing, code reviews, and system customization, resulting in a 20% improvement in data processing efficiency.
- Technologies: Python, Java, Azure, AWS, SQL, NoSQL, Linux.

Data Migration and Analytics Platform

- Built an ETL pipeline in Python and SQL to analyze and migrate large datasets from MS SQL Server to DynamoDB, handling data modeling and requirement mapping.
- Incorporated NoSQL database optimizations and cloud integrations with AWS Lambda for automated workflows.
- Created technical specifications, functional docs, and test plans; validated the solution against SLAs, achieving 99% data accuracy.
- Technologies: Python, SQL, AWS, DynamoDB, ETL Tools.

Mobile App with Cloud Backend for Cross-Platform Support

- Designed and developed a cross-platform mobile app using JavaScript and .NET for iOS and Android, focusing on application architecture and user data integration.
- Utilized Oracle Database for backend storage and Azure for cloud deployment, including intermediate system configurations and customizations.
- Implemented software extensions via APIs, performed unit testing, and generated status reports using DevOps practices.
- Addressed troubleshooting scenarios, such as software upgrades, resulting in a robust app handling 1,000+ concurrent users in simulations.
- Technologies: JavaScript, .NET, Oracle DB, Azure, iOS/Android SDKs.

Database Administration and Optimization Tool

- Created a tool in Java for intermediate system administration, including installations, configurations, and performance tuning for MS SQL Server and Linux environments.
- Incorporated NoSQL elements with Cosmos DB for hybrid data storage, and validated deployments with test plans.
- Focused on quality assurance through code reviews and unit testing, while documenting requirements and functional specifications.
- Simulated client support by resolving "technical issues" in a project demo, ensuring compliance with service metrics.
- Technologies: Java, MS SQL Server, Cosmos DB, Linux, Windows.

Internships & Simulations

- AI Intern – AIMER Society | 8 Weeks
- ML Intern – Indian Servers | 8 Weeks
- Data Science Intern – Yhills | 8 Weeks
- Data Science Intern – Prodigy | 4 Weeks
- Job Simulation – TCS | Forage Platform

Certifications

- Infosys Springboard certification in Software Engineering and Agile development.
- Google Cloud Gen AI.
- Data Analytics by Jobaaj Learnings.
- SQL by Oracle.
- Java by Oracle.

Additional Information

- Strong learning attitude with commitment to continuous skill development in big data and cloud technologies.
- Experience working in diverse team projects, emphasizing collaboration, milestone achievement, and deadline management.
- Proficient in translating requirements into engineered solutions, with a focus on quality and client satisfaction.