DAMARLA LALITHA SREE

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Professional Summary

Enthusiastic **Cloud & AI Engineer** with hands-on experience in **AWS (Kendra, Bedrock, Glue, Lambda, S3, EC2)**, **Java, C#, and Python**, and a strong foundation in **AI/ML integration and full-stack development**. Driven by **curiosity and creativity**, I thrive at the intersection of **software engineering and intelligent automation**, transforming complex challenges into simple, impactful solutions. Recognized for **persistence, problem-solving, and innovation**, I bring both technical expertise and genuine passion for **using technology to empower people and drive business success**.

Technical Skills

Programming Languages: Java, C#, C++, Python, JavaScript, SQL, PowerShell

Frameworks: ASP.NET MVC, .NET Core, WPF, MFC, Spring Boot, Django, PySpark, TensorFlow, Node.js, React.js, jQuery, Angular, GraphQL, Typescript

Cloud & DevOps: AWS (Lambda, Glue, Bedrock, Kendra, SES, SNS, EC2, S3), Azure (VMs, DevOps, App Services), GCP, Docker, Kubernetes, GitHub Actions, Jenkins, CI/CD Pipelines

MLOps: Model deployment, CI/CD for ML, monitoring (MLflow, Kubeflow, SageMaker), model governance, pipeline automation.

GenAI & LLMOps: Large Language Model (LLM) fine-tuning, RAG pipelines, prompt engineering, evaluation frameworks, cost/performance optimization.

Python & Data Science: Data wrangling (Pandas, NumPy), Hugging Face, visualization (Matplotlib, Seaborn), feature engineering, statistical modeling, automation.

Machine Learning (AIOps): Supervised/unsupervised learning, anomaly detection, predictive analytics, IT operations automation, monitoring intelligence.

Deep Learning (AIOps): Neural networks, CNNs, RNNs, Transformers, NLP, computer vision, intelligent IT automation.

Databases & ETL: Oracle, SQL Server, Aurora, MySQL, NoSQL, Dynamo DB, PostgreSQL, MongoDB, ETL Pipelines, SailPoint API

Testing & Quality: JUnit, NUnit, Postman, Jest, PyTest, SonarQube, Swagger/OpenAPI, ESLint, Prettier

Tools & Platforms: Git, GitHub, JIRA, Confluence, DBeaver, REST APIs, Microservices, Hub Gateway, IIS Deployment, Agile/Scrum, Tableau

Professional Experience

Cloud & Intelligent Automation Engineer

Syngenta, Downers Grove, Illinois | Jun 2023 – Jul 2025

- **Automation & AI Integration:** Developed automation scripts using GenAI, improving team efficiency by **25%** and reducing manual workload by **20+ hours per week**.
- **Cloud Infrastructure Optimization:** Leveraged **AWS Kendra** to streamline data retrieval, reducing query response times by **40%** for 1,000+ daily queries.
- **Data Engineering:** Built **PySpark-based ETL pipelines** on **Databricks + AWS Glue**, processing SailPoint API data into **NoSQL (DynamoDB, MongoDB)** stores, enhancing data accessibility and reducing latency.
- Leveraged **Databricks + PySpark** for large-scale data preprocessing, feature engineering, and ML model training, cutting data preparation time by 30%.
- **Cost & Performance:** Implemented cloud-native solutions that cut operational costs by **15%** and improved delivery speed by **30%**.
- **AI/ML Model Development:** Integrated **AWS Bedrock** to deploy ML models, cutting data processing time by **50%** and boosting automation.
- **LangChain & RAG Pipelines:** Designed and deployed **retrieval-augmented generation (RAG) pipelines** using **LangChain, Hugging Face Transformers, scikit-learn, PySpark, and Databricks notebooks**, improving enterprise knowledge search accuracy by 40%.
- **Multi-Agent Orchestration:** Built **LangChain-based orchestration frameworks** for dynamic task allocation, memory/state management, and tool integration, accelerating Salesforce CPQ workflows.

- **Knowledge Base Creation:** Developed a **CPQ Salesforce knowledge base**, enhancing collaboration and reducing onboarding time.
- **Cloud Communication Automation:** Built automated communication systems using **AWS Lambda, SES, and SNS**, reducing human error in alerts and workflows.
- **Monitoring & Security:** Designed dashboards for analytics-driven decision-making and reduced post-deployment bugs by **30%** through code reviews and security compliance.

Associate Application Developer (Java & .NET Developer)
Unisys India Pvt Ltd, Hyderabad, India | Jan 2021 – Dec 2022

- **C# .NET, ASP.NET MVC, Web API:** Developed and maintained enterprise-grade software in an Agile environment, improving delivery speed by **25%** and minimizing project delays.
- **Java Backend Development:** Built and enhanced core modules using **Java**, implementing scalable business logic and backend APIs for enterprise systems.
- **JavaScript & jQuery:** Wrote interactive **JavaScript and jQuery** scripts to enhance frontend UX, validate inputs, and ensure responsive UI behavior.
- **Oracle & SQL Server Databases:** Worked with **Oracle and SQL Server** for data modeling, writing optimized queries, and handling large-scale enterprise data operations.
- **Hub Gateway Integration:** Collaborated on **Hub Gateway** configuration and integration, ensuring secure and efficient data communication between systems.
- **ABSuite CLR Upgrade:** Independently handled the **version upgrade of ABSuite CLR from 8.0 to 9.0**, resolving compatibility issues and ensuring seamless transition.
- **Web Application Deployment:** Deployed and managed applications on **IIS web servers**, maintaining uptime and performance.
- **PowerShell Scripting:** Automated routine tasks and deployment processes using **PowerShell**, improving team efficiency.
- **CI/CD & Azure DevOps:** Implemented **CI/CD pipelines** in **Azure DevOps**, streamlining code integration and deployment cycles.
- **Incident Management:** Managed incidents through **JIRA**, collaborating with cross-functional teams to resolve issues quickly.
- **Cloud Exposure:** Gained experience with **Azure VMs and cloud services**, supporting deployment, monitoring, and troubleshooting activities.

Education

DePaul University | M.S. in Computer Science**, GPA:**3.6/4.0
G. Narayanamma Institute of Technology and Science, Hyderabad | B. Tech in Computer Science Engineering, GPA: 7.3 / 10

Academic Projects

Unsupervised Ensemble Clustering for Student Behavioral Patterns| Python, PySpark, Scikit-learn | (GitHub)
- Designed and implemented an ensemble clustering pipeline, improving clustering accuracy by **30%**.
- Built a recommendation system that increased student intervention efficiency by **25%**.
- **Outcome:** Enabled **40% faster student behavior predictions** to support early interventions.

Clustering Time Series Data Using Affinity Search | Python, PySpark, ML Algorithms | (GitHub)
- Conducted clustering analysis on time-series datasets using affinity search techniques.
- Reduced computational complexity by **35%** and improved anomaly detection by **20%**.
- **Outcome:** Improved data accuracy by **40%**, enabling real-time pattern recognition.

Task Manager with Bedrock Chatbot (Personal Project) | React.js, Node.js, TypeScript, AWS Bedrock, Lambda | (GitHub)
- Developed a full-stack application with **React.js** frontend and **Node.js** backend, delivering a responsive task management system.

- Designed **CRUD plugins** with code generation to automate data operations, enhancing backend scalability and reducing development time by **15%.**
- Integrated **AWS Bedrock chatbot** to dynamically generate task steps, improving user productivity by **20%.**
- Showcased end-to-end integration of frontend, backend, cloud, and AI, deployed via AWS Lambda and S3.

Awards and Certifications

- **Academy Accreditation – AI Agent Fundamentals**, Databricks (Sep 2025 – Sep 2026)
- **Academy Accreditation – Generative AI Fundamentals**, Databricks (Sep 2025)
- **Azure AI-900** from *Microsoft*
- **Gold Certificate in Core Java** from *Hebeon Technologies*
- **Awarded for Creativity in Product Feature Development** *from* **Unisys India**
- **Recognized as Best Enthusiastic Student & Best Presentation** from **Supraja Technologies (Internship)**