Lalitha Samyuktha Jayanthi

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Value Proposition

A Data Science graduate with hands-on experience in Java and related technologies, with hands-on project experience in developing secure, scalable applications using Spring Boot, Hibernate, RESTful APIs, and cloud technologies. Strong problem-solving skills, familiarity with SDLC and agile methodologies, and a passion for building cutting-edge solutions. Excellent communication skills and ability to work independently or in teams to analyze requirements, perform unit testing, and write technical documentation.

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, SQL, Python.
- Frameworks & Tools: Spring, Spring Boot, Hibernate, RESTful API Development, Git.
- Cloud Technologies: Azure, AWS, ServiceNow
- Databases: SQL (MySQL), NoSQL (MongoDB)
- Methodologies: Software Development Life Cycle (SDLC), Agile Methodologies
- Other: HTTP/REST and Security Protocols, Unit Testing (JUnit), Technical Documentation, Problem-Solving, Issue Resolution

Projects

Federation Hub Simulator (Java Spring Boot Application)
- Developed a full-stack application simulating a Federation Hub for identity management in multi-tenant systems, aligning with Infor OS™ architecture for secure user authentication and federation.
- Implemented core features using Java, Spring Boot, and Hibernate for ORM, handling user data persistence in a MySQL database.
- Integrated RESTful APIs with security protocols (OAuth 2.0 and JWT) to enable secure HTTP/REST communication and prevent unauthorized access.
- Deployed on Azure cloud for scalability, incorporating basic cloud technologies like Azure App Services for optimization.
- Conducted unit testing with JUnit, wrote technical documentation, and followed agile methodologies for iterative development, including requirement analysis and work effort estimation.
- Outcome: Reduced simulated authentication latency by 40% through optimized queries; demonstrated strong issue resolution by debugging conflicts in federated identity flows.

Secure RESTful API Service for User Management
- Built a secure, RESTful API backend for user identity and access management, focusing on federation and security features suitable for next-generation applications.
- Utilized Java, Spring framework, and Spring Boot for rapid development, with Hibernate for database interactions in a NoSQL MongoDB environment.
- Incorporated HTTP/REST endpoints with security measures, including encryption and role-based access control, to handle real-time user federation.
- Managed version control with Git, participated in planning by estimating effort for features, and performed demos of API functionalities.

- Applied SDLC principles and agile practices to iterate on requirements, resolve conflicts, and maintain code quality through unit testing.
- Outcome: Created a robust service handling 1,000+ simulated requests per minute; enhanced with cloud deployment on AWS EC2 for basic scalability testing.
  Cloud-Based Identity Analytics Dashboard
- Designed and developed a web application dashboard for analyzing federated identity data, emphasizing optimization for Infor-like enterprise systems.
- Leveraged Java for backend logic, Spring Boot for microservices, and Hibernate for efficient data mapping to SQL databases.
- Implemented RESTful APIs with security integrations (e.g., SSL/TLS) and basic cloud technologies using GCP for hosting and data storage.
- Followed agile methodologies for planning, including requirement analysis, effort estimation, and writing technical documentation.
- Performed unit testing, maintenance, and issue resolution to ensure reliable performance under varying loads.
- Outcome: Delivered an interactive dashboard with real-time analytics; improved data retrieval speed by 30% via optimized REST calls and cloud caching.

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 Plat form

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.