

Jaya Sravani Sirigineedi

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Professional Summary

Passionated Software Developer with nearly 5 years of experience in application development, system design, testing, and operational stability. Proficient in Java, Spring Boot, and microservices architecture, with a strong foundation in agile methodologies and cloud technologies. Skilled in debugging and maintaining code in large corporate environments and fast-growing startups.

Education

University of North Carolina at Charlotte | Charlotte, USA Aug 2023 – May 2025
Master of Science in Computer Science GPA: 4.0/4.0

Sastra Deemed to be University | Tamil Nadu, India Aug 2016 – May 2020
Bachelor of Technology (Information Technology) GPA: 8.15/10.0

Relevant Coursework: Algorithms and Data Structures, Java Programming, Database Systems, Software System Design and Implementation, Object Oriented Design and Development, Introduction to Secure Cloud Computing

Technical Skills

Programming Languages	Java 8/11/21, SQL, C++ , C, HTML, CSS, Bootstrap, JavaScript, Python
Frameworks/Modules	Spring Boot, Spring Framework, Spring Cloud, REST, SOAP, JUnit, Mockito, React
Databases/Servers	MySQL, Cassandra, Firestore, MongoDB, Tomcat, Ngnix
Other Technologies/Tools	Maven, Git, IntelliJ, Jenkins, AWS, GCP, Docker, Kubernetes, Redis, Kafka, Jira

Experience

Software Developer II | Loraine Lab at UNCC | Kannapolis, NC Oct 2023 – Present

- Created a plugin POC to integrate the Ensembl data provider into the Integrated Genome Browser (IGB) application, using efficient searching and caching mechanisms.
- Developed enhancements to the IGB application using Java Swing, improving the user interface and experience through streamlined application development with Java, OSGi, and Apache Felix.
- Implemented a service to automate the integration of over 220 genome species and hundreds of datasets into IGB using UCSC's REST API with JSON format, enhancing real-time access to genomic data for scientists.
- Optimized code performance to address a 23% increase in loading time using multithreading, successfully reducing the overall increase in load time to 4% and enhancing user experience.

Backend Developer (Team Lead) | Backbase | Hyderabad, India Oct 2022 – July 2023

- Customized Backbase products for SNB Neo Bank, the largest bank in Saudi Arabia, using Java and Spring Boot.
- Successfully delivered the customized Digital Lending product for the first time in the company by integrating it with the bank's SOAP-based web services using XML and got appreciated by the clients.
- As the Backend Team Lead, participated in client requirement gathering and technical design sessions to create solutions for backend tasks. Managed the team by attending and conducting meetings.
- Contributed to Digital Lending and Digital Banking projects using Agile methodology, successfully delivering two well-designed and tested features within a 2-sprint timeframe.

Software Developer | Tata Consultancy Services | Hyderabad, India Sept 2020 – Oct 2022

- Worked on a large-scale application for DaVita, collaborating with 4 cross-functional teams to streamline patient treatment and test result management for over 200,000 patients.
- Developed and optimized 6 microservices using Java, Spring Boot, and RESTful Services, ensuring seamless communication via Kafka and RestTemplate, integrating with front-end systems and other services.
- Performed code optimization and written emulated test cases for integration testing, code optimization, and code coverage. Always maintained a standard code coverage of 80% or above.
- Wrote and optimized SQL queries for MySQL and NoSQL queries for Cassandra, improving database performance and ensuring smooth data handling across the application.

- Applied Machine Learning techniques to perform segmentation and churn analysis on an example health insurance dataset, improving insights into customer behavior.
- Developed and deployed a web application using HTML, Bootstrap, and Flask to present and visualize the results of various ML models, enabling clear and interactive data interpretation.

Poster Presentations and Talks

Integrating data sources for visualization in the Integrated Genome Browser.

Jan 4-8, 2025

Nowlan Freese, **Jaya Sravani Sirigineedi**, Karthik Raveendran, Paige J. Kulzer, Ann E. Loraine
Pacific Symposium on Biocomputing (PSB), Kohala Coast, Hawaii. [Poster DOI]

Adding UCSC Genomes into Integrated Genome Browser using REST APIs.

Oct 21, 2024

Jaya Sravani Sirigineedi, Nowlan Freese, Ann E. Loraine

Biological Science Research Symposium, University of North Carolina at Charlotte, Charlotte, North Carolina.

Connecting IGB to a huge genome database using its open API.

July 15-16, 2024

Ann E. Loraine, **Jaya Sravani Sirigineedi**, Nowlan Freese, Paige J. Kulzer

Bioinformatics Open Source Conference, July 15-16, 2024. Montréal, Canada.

Projects

Wellness Track Reporting website | Github Link

Dec 2024

- Developed a decoupled Single Page Application (SPA) to showcase the impact of wearable devices in healthcare, using dynamic charts with data stored in MongoDB and deployed it using Nginx.
- Tools Used: HTML, CSS, React, MongoDB, Nginx, Java, JWT, Spring Boot, D3.js

Veg vs Non-Veg Food Classifier

Dec 2023

- Captured images of University dining food for the dataset and performed Veg vs Non-Veg Food Classification using CNN and pre-trained models. Developed a web application to access it using StreamLit.
- Tools Used: Python, Keras, TensorFlow, CNN, StreamLit

Hospital Management System

Aug 2020

- Developed a Hospital Management System for hospital employees to manage their patient's treatment, tests, rooms, and medication. Led a team of 6 people while working on the project.
- Tools Used: HTML, CSS, Bootstrap, Javascript, SQLAlchemy

Certifications

- AWS Certified Solutions Architect - Associate - View Credential
- Master Microservices with Spring Boot and Spring Cloud - View Credential

Achievements & Awards

- Recognized with the On The Spot (OTS) Award for exceptional performance and significant contributions to the project's successful delivery of the R11 release at TCS.
- Received the Dean's Merit Scholarship for two years during undergraduate studies.