

# Jaya Sravani Sirigineedi

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## Professional Summary

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Dedicated 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

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**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

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

## Experience

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

- Created plugin POCs to integrate the Ensembl data provider and GenArk genomes hub 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.

## Data Science Intern | Tata Consultancy Services | Hyderabad, India

Jan 2020 – April 2020

- 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

### StudySphere | Github Link

Mar 2025

- Developed a web application for creating and managing study groups with features like real-time collaboration via chat, file sharing and flashcard creation. The initial version was submitted to PearlHacks2025.
- Tools Used: React, Vite, Tailwind CSS, WebSockets, Java, Spring Boot, PostgreSQL, JWT, STOMP

### 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.