

# Sourya Prateek Jammula

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San Jose, United States

## EDUCATION

- San Jose State University** San Jose, United States  
*Master of Science - Software Engineering; GPA: 3.7* *August 2022 - May 2024*  
*Courses: Enterprise Distributed Systems, Data Mining, Enterprise Application Development, Enterprise Software Platform, Software Quality Assurance Testing, Software System Engineering.*
- Amrita Vishwa Vidyapeetham** Bengaluru, India  
*Bachelor of Technology - Computer Science; GPA: 3.1* *July 2017 - August 2021*  
*Courses: Data Structures, Algorithm Analysis, Object Oriented Programming, Database Management, Software Engineering, Computer Networking, Operating Systems(OS), Machine Learning.*

## SKILLS SUMMARY

- Languages:** Python, JavaScript, SQL, Java
- Frameworks and Technology:** React, Angular, HTML, CSS, Bootstrap, JUnit, REST API, Node.js, Scrum, Jenkins, Jest, Java Mobile, AWS, Docker, DOM, HTTP protocol, TypeScript, Linux, Windows, Apache Camel, SpringBoot
- Tools:** GitHub, BitBucket, Maven, PostMan, IntelliJ, Workbench
- Soft Skills:** Critical thinking, Problem-solving, Adaptability, Communication, Team Collaboration, Time Management

## EXPERIENCE

- Nordea Bank (TCS)** Bangalore, India  
*Software Engineer (Full-time)* *May 2021 - July 2022*
  - Designed an application using **Apache Camel**, **RESTAPI calls** and **Java**, implemented a feature to import large data volumes into IGC (Information Governance Catalog) tool which reduced human efforts by **90%**.
  - Developed a **CRUD** application to manipulate bulk employee data in the metadata tool utilizing inbuilt **RESTAPI calls**, **Angular(FrontEnd)**, **Nodejs(BackEnd)**, **Notepad++**, **XML** and **MySQL**.
  - Led the whole team in conducting **JUnit** testing for all development activities, resulting in the achievement of **100%** test coverage.
  - Incorporated bulk processing capabilities into the metadata tool to enable seamless manipulation of Lineage data across multiple assets ensuring reliable metadata management using **SQL scripts** and **DB2 database**.
- Tata Consultancy Services (TCS)** Bangalore, India  
*Software Engineer (Internship)* *Feb 2021 - May, 2021*
  - Using **Spring Boot**, **Hibernate** and **Java**, developed a banking system based on a microservice architecture. The system utilizes **Restful APIs** and employs a **PostGre DB** for data storage. **Postman** is used for testing the system.
  - Enhanced customer satisfaction by presenting the credit limit details instantly, resulting in a **30%** reduction in customer wait time. Reduced response time by **40%**, allowing users to retrieve credit limit and account balance information faster.
  - Collaborated closely with cross-functional teams to successfully establish robust **CI/CD** pipelines, resulting in a 50% reduction in software deployment time. Streamlined the delivery process, enabling seamless deployment of software updates and enhancements, leading to a 40% increase in overall release frequency.

## PROJECTS

- Airline Management Tool (Web Development, Database Systems):** Implement an end2end Airport Management system that can be configured for a given airport (Web interface or Mobile app interface with supporting **Backend APIs**), that integrates Airline Flight Schedules, Gate Assignments, Baggage Claim assignment for arriving flights using **React**, **Express**, **MySQL & AWS EC2**.
- Sensus Data Analysis (AWS, Database Systems):** Collaboratively implemented an end-to-end data analysis project utilizing the Sensus app, AWS tools, MySQL, and Python. Established an S3 cluster, collected and managed data, performed data aggregation, and generated comprehensive reports with insightful **visualizations**.
- Gym Pose Tracker Application (Machine Learning, AI):** Revolutionized fitness tracking through AI-powered camera system. Identified exercises, counted reps, and analyzed posture using **OpenCV**. Personalized feedback and precise calorie tracking for tailored fitness goals. Elevated workout experience with real-time guidance and data-driven precision.
- Movie Seat Booking Application (Distributed Systems, Web Development):** Reservations are implemented by using **Socket.io** (each movie has own room -i each client subscribe only room/movie event which is actually browsed) and stored in-memory on api-gateway. Improved **api scalability** on production, reservations stored in distributed DB like Redis.

## CERTIFICATIONS

- Introduction to Statistics in Python(DataCamp):** Gaining essential knowledge and practical skills in statistical analysis, data visualization, hypothesis testing, and probability distributions using Python libraries such as **NumPy**, **Pandas**, and **Matplotlib**.