

Sreeram Kollu

📍 Charlotte, North Carolina, United States ✉ sreeramkollu07@gmail.com ☎ (980) 389-4270 🔗 [linkedin.com/in/sreeram-kollu](https://www.linkedin.com/in/sreeram-kollu)

🔗 <https://sreeramchowdary99.github.io>

SUMMARY

Software Engineer with 2 years of experience in developing, designing, and testing applications across various platforms. Expertise in problem solving and debugging, as well as efficient coding practices. Skilled in multiple programming languages, web development, and database management. Looking to utilize my skills and experience at LTI & ADRIN to create innovative solutions and further my career.

EDUCATION

Masters in Computer Science

University of North Carolina, Charlotte • Charlotte, NC • 2022 • 4.0

Bachelors in Information Technology

Vasavi College of Engineering • Hyderabad, India • 2020 • 3.3

EXPERIENCE

Teaching Assistant

University of North Carolina, Charlotte

August 2022 - December 2022

- Guided students in assignments focusing on SQL query optimization, normalization techniques, and foundational database design principles.
- Collaborated with faculty and colleagues to explain indexing strategies and transaction management.
- Contributed to curriculum enhancement by integrating ER modeling and query optimization concepts, aligning with industry trends.
- Facilitated dynamic learning through interactive workshops, discussions on data integrity, and personalized support for intricate SQL operations.

Instructional Assistant

University of North Carolina, Charlotte

January 2022 - July 2022

- Provided pivotal support as an Instructional Assistant for the "Rapid Prototyping" course, ensuring a productive learning environment.
- Expertly graded student assignments and projects, offering constructive feedback to foster growth and comprehension.
- Engaged proactively with professors and fellow assistants, aiding students in clarifying doubts and solidifying their grasp of course concepts.
- Collaborated seamlessly with students and faculty to refine course materials, incorporating valuable feedback to enhance overall content and relevance.

Software Engineer

LTI, Navi Mumbai, India

August 2020 - July 2021

- Collaborated with cross-functional teams to develop and maintain Java-based applications for clients in the financial sector.
- Designed, implemented, and tested software components using Java, ensuring adherence to coding standards and best practices.
- Contributed to the complete software development lifecycle, from requirement analysis to deployment and maintenance.
- Resolved complex technical issues by debugging and identifying root causes, leading to improved application performance.
- Participated in code reviews, providing constructive feedback to team members and promoting code quality.
- Communicated effectively with clients and project managers to gather requirements, provide project updates, and address concerns.

Technical Intern

ADRIN, Hyderabad, India

January 2020 - May 2020

- An intern developed one such NPNT compliance system as an Internet of Things (IOT) device to use for drone operations.
- Developed a Map Control for Graphical User Interface (GUI) using Python and Java for viewing the drones under flying operations to monitor and view on the back drop of map.
- To store the telemetry information of all such flying drones and their locations, used Google Cloud Firebase platform, and such fetched locations can be viewed on the Map Control.

PROJECTS

Supermarket Sales Visualization using Streamlit

- Developed a Python project using Streamlit to visualize supermarket sales data collected over a three-month period. Utilized data analysis and visualization techniques to showcase popular product categories and total sales during the three-month duration. Technical Details:
- Utilized Python and Streamlit for creating interactive web-based visualizations.
- Employed data visualization libraries such as Matplotlib, Seaborn, and Plotly.
- Preprocessed and cleaned the supermarket sales data, including handling missing values and data normalization.
- Created various types of visualizations such as bar charts, line charts, and pie charts to showcase sales trends and product category distributions.

Online Bookstore Project

- Developed a user-friendly online bookstore using Java, JDBC, and Servlets, showcasing strong Java programming proficiency.
- Implemented robust features and object-oriented principles for functionalities including user registration, login authentication, book management, and transactions.
- Leveraged Java's versatility to create modular and scalable code, ensuring efficient user interactions and data manipulation.
- Utilized JDBC to connect with MySQL database, enabling seamless data retrieval and storage for a high-quality, reliable, and extensible web application.

MovieHub

- Developed a web app for users to browse movies, watch trailers, and submit reviews, utilizing React for frontend and Spring Boot (Java) for backend.
- Designed and implemented MongoDB Atlas database schema, ensuring efficient data storage and retrieval.
- Implemented backend with Spring Boot to manage CRUD operations and API endpoints, enhancing application functionality.
- Created frontend using React to display movie details, trailers, and reviews, implementing responsive design and UX best practices for an optimal user experience.

Portfolio

- Link: <https://sreeramchowdary99.github.io/>
- Developed a responsive portfolio website using HTML, CSS, JavaScript, and Bootstrap to showcase my skills and experience in web development.
- Includes all the details mentioned in resume highlighting my experience in relevant skills.

Image Viewer Application

- Developed a user-friendly Java application for browsing and displaying images from a specified directory.
- Implemented file handling, image rendering, and navigation functionalities for a seamless user experience.
- Utilized Java's ImageIO library to load and render images, retrieving essential information such as size, resolution, and file type.
- Integrated intuitive navigation buttons to facilitate easy switching between images.
- Conducted thorough testing to ensure optimal performance, accurate image rendering, and smooth navigation.

SOAP to JSON and JSON to SOAP Wrapper: A Python Flask Application for REST API Integration

- Developed a Python Flask application that functions as a wrapper for a REST API endpoint, providing a seamless integration between SOAP and JSON communication protocols.
- Implemented four key endpoints: Place Order, Preview Order, Product Search, and Get Inventory, enhancing the functionality of the application.
- Utilized the xmlltodict library to facilitate efficient conversion from XML to dictionary format and vice versa, enabling seamless data transformation.
- Ensured adherence to the Web Services Description Language (WSDL) specifications of the REST service, converting XML requests to JSON and JSON responses back to XML.
- Incorporated user-defined functions to format data before calling the JSON endpoint, enhancing the quality and accuracy of the communication process.
- Rigorously tested the application across diverse scenarios and implemented robust error handling mechanisms, ensuring the reliability and resilience of the service while adhering to REST API standards and best practices.

Library Portal

- Developed a library portal web application using Python, Django, HTML, CSS, JavaScript, SQLite3, and MySQL, enabling secure user and admin access to library resources.
- Designed and implemented the frontend UI using HTML, CSS, and JavaScript, ensuring an intuitive and responsive user experience.
- Created backend functionalities using Python and Django for tasks like user authentication, book search, and reservation, enhancing user interactions.
- Utilized SQLite3 and MySQL databases to securely store and manage user login details and library resources, maintaining data integrity.
- Conducted thorough testing and bug fixing to ensure seamless application functionality, resulting in an optimized and reliable user experience.

CERTIFICATIONS

AWS Certified Solutions Architect – Associate

AWS • 2023

Validates skills in designing scalable, secure, and cost-effective solutions on AWS. Proficient in architectural best practices, cloud security, and utilizing AWS services effectively.

Pega Certified System Architect

August 2020

Demonstrates expertise in designing and implementing efficient solutions using Pega's BPM platform. Proficient in creating process flows, user interfaces, data models, and integrations to address business challenges.

SKILLS

Programming languages: Java, C, Python

Web development: React, HTML, CSS3, JavaScript

Web Services Development: RESTFUL webservices, SOAP

API testing: Postman

Database management: MongoDB, MySQL, Firebase

Web servers: Apache Tomcat

Frameworks: Spring Boot, Django