

Naga Pawan Keerthan Ramaraju

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EDUCATION

Cleveland State University , Cleveland, OH	Aug 2021-May 2023
Masters in Computer and Information Science	GPA:3.61/4.0
Relevant Courses: Android Sensor Programming, Software Engineering, Software Quality Assurance, Architecture and OS	
Osmania University , Hyderabad, India	Aug 2016-Oct 2020
Bachelor's in Computer Science and Engineering	GPA:3.50/4.0
Relevant Courses: Java, Database Management Systems, Data Structures and Algorithms, Web Development, Machine Learning	

WORK EXPERIENCE

SkillNet Solutions Inc , Twinsburg, Ohio	Jan 2023 – April 2024
Software Associate III	
<ul style="list-style-type: none">Designed and Integrated API calls for the data transmission between server-side and application methods, meticulously evaluated the HTTP requests with Postman and ensuring data integrity on the Oracle server through thorough validation processes.Resolved data issues by skillfully consolidating information from multiple POS database tables and efficiently managed a database of 64-million real time records, creating optimized SQL queries essential for generating receipts for auditing.Analysed and validated SQL queries and results, enhanced project flexibility by introducing configurable queries and connection properties.Implementing Log4j for extensive console logging for continuous improvement, project monitoring and issue resolution, including the successful migration of data from Oracle to MS SQL Server.Developed methods for retrieving receipt data in JSON format and built efficient API endpoints to facilitate streamlined data access, Meticulously upheld data accuracy and validation in API interactions.Implemented secure user authentication utilizing OAuth 2.0 with JWT-based tokens to provide the authentication access specially related to the domain of the client.Have used Amazon EC2 instances to deploy the application, Leveraged Amazon EC2's scalability features to easily adjust compute capacity based on demand fluctuations, ensuring optimal performance during peak usage periods.Leveraged Amazon EC2's monitoring and management tools such as Amazon Cloud Watch to gain insights into system performance, monitor resource utilization, and proactively address any operational issues or bottlenecks.Collaborated effectively with cross-functional teams (e.g., design, QA, product) to ensure successful project delivery.	
Cleveland State University , Cleveland, Ohio	Jan 2022 – Dec 2022
Graduate Teaching Assistant	
<ul style="list-style-type: none">Facilitated instruction in Java programming and Software Engineering courses, guiding students in grasping coding principles, debugging code effectively, and leading weekly lab sessions.Collaborated with faculty to enhance course material, ensuring alignment with current industry standards.	
Infosys , Hyderabad, India	Mar2021 – July 2021
Systems Engineer	
<ul style="list-style-type: none">Significantly contributed in the design and development of an E-commerce Website, demonstrating proficiency in Agile methodology.Authored comprehensive test cases with JUnit and executed meticulous backend testing. Utilized Postman for precise validation of API calls through parameter JSON formats.Engaged directly with stakeholders to address deployment challenges, resulting in a substantial 30% improvement in product performance.	
Cloudseals Pvt Ltd , Hyderabad, India	May 2019 – Dec 2020
Software Developer Trainee	
<ul style="list-style-type: none">Built an e-learning platform with a secure payment gateway, offering a diverse range of courses for paid enrollment.Involved in the development procedures of the user interface pages with HTML, CSS, JavaScript.Implemented Spring framework for business logic and used Spring Security to deal with authentication and authorization.Performed testing using Junit. Integrated Spring MVC to define Controllers, Services.Implemented Hibernate Transactions using Spring AOP Interceptors. Utilized the Waterfall software development life cycle (SDLC) for project management.	

PROJECTS

Mobile Application for Loyalty Points	Jan 2023 - April 2023
<ul style="list-style-type: none">Coordinated seamless integration between local and server-side databases (ORCE) to ensure efficient retrieval of user data, streamlined promotion implementation, and accurate tracking of loyalty points within the application.Designed and crafted the user interface (UI) for the application, integrating robust user data validation logic during the inception of user accounts.Developed virtual loyalty cards by writing new using SOAPUI to align with the client's chosen loyalty program, ensuring secure storage of generated cards within the ORCE server.	

- Used twilio for developing the programmable messaging API which is used for verification of customers, sending the offer's/discount's notifications.
- Used Apache Kafka to implement the chat bot feature in the application to handle communication between the mobile application and the backend services responsible for processing chatbot interactions.
- Utilized Apache Kafka to implement durable message storage, ensuring seamless processing and persistence of chatbot interactions.
- By leveraging Kafka's capabilities, guaranteed that all messages were reliably stored, even in the event of system failures or restarts. This safeguarded uninterrupted user conversations, providing a seamless experience for users.

Feature Based Medical Image Retrieval

April 2022 - Dec 2022

- Developed a model using VGG-19 architecture to retrieve the different categories of medical images. Collected data of various real time medical images of different diseases.
- Used the numpy libraries to perform the math operations from tensorflow I have imported the VGG-19 architecture, Extracted the features from all the images in the source and query image databases.
- Used the extracted data to perform the feature selection process to get the reports of the patients having similar issues the feature selection methods have retrieved the results with accuracy of 98%.

Sensor Listing

March 2020 - July 2020

- Created an application which gives the details of all the mobile sensors present in the android device.
- The sensors are displayed in the list form and when we select a sensor it displays the details of Sensor name, version, range and other capabilities. Used the Android studio as the platform to develop the application. The UI of the application is developed using
- Deployed the application onto Android devices for testing and demonstration purposes. Utilized Android Studio's deployment tools to generate APK files for installation on various Android devices.
- Ensured compatibility with different versions of Android OS to reach a wider audience. Utilized Android Studio's debugging tools and implemented unit testing methodologies to identify and rectify any encountered issues, ensuring the application's performance and functionality meet quality standards.

SKILLS & CERTIFICATIONS

Technical: Java, SpringBoot, RestAPI, HTML, POS, Kafka, CSS, Python, React.JS, JavaScript, Maven, Agile, Git, Node.js, ORCE, XML

Tools: Tensorflow, Jenkins, Android studio, Eclipse, VS studio, Postman, JIRA, Scrum.

Database: MS SQL management studio, MS SQL server, SQL developer.

Cloud: AWS EC2, Oracle Cloud Infrastructure (OCI)

Certifications: Oracle Cloud Associate by Oracle, SCRUM Fundamentals by SCRUMstudy, Data Visualization using Python, AI for Everyone by University of Michigan