

Lokesh Ambarapu

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SUMMARY

Software engineer with 5+ years of experience in developing, maintaining, and implementing robust software applications. Experienced in working in a fast-paced, dynamic environment by collaborating with multiple teams. A problem solver with a passion for learning and staying up to date with the latest technologies. I bring a comprehensive understanding of automation principles, a strong technical skill set, and a dedication to continuous improvement. I am dedicated to delivering innovative automation solutions that enable organizations to achieve higher levels of efficiency, productivity, and profitability.

EDUCATION

Clark University, **Master in Computer Science (STEM)- GPA: 3.9/4.0** Expected December 2024
Osmania University, **Bachelor of Computer Science & Engineering- GPA: 3.9/4.0** June 2016

RELEVANT SKILLS

Technical Skills: Java, Python, SQL, React, HTML5, CSS, PHP, JavaScript, jQuery, C, C++, C#, Git, Docker, SoapUI, Power BI, Tableau, Microsoft Office, Excel, Angular JS, Django, TypeScript, GitLab, GitHub, Kotlin, PostgreSQL, Jira, Confluence, IDE tools-VS Code, IntelliJ, Eclipse, PowerShell, Blue Prism, Bootstrap, Azure, Hibernate, Apache Spark, Cassandra, Tomcat, Hadoop, Terraform

Coursework: Cyber Security, Data Mining, Database Management, Data Structures, Object Oriented Programming, Computer Networks, Data Science and Analytics, Big Data, Business Intelligence, Operating Systems, Web and android Development, Machine Learning

EXPERIENCE

Dell International Services, Software Engineer2 - Hyderabad, India September 2017-June 2022

- Proficient in developing and deploying SOAP API Web Services and RESTful Services (JAX-RS), ensuring dynamic and scalable server-side web content. Utilized Spring Config Server for centralized configuration and Splunk for centralized logging.
- Managed the development of an internal web application utilizing Servlets and JSPs, adhering to the MVC pattern within the Spring MVC framework.
- Utilized frameworks like JUnit & NUnit, resulting in improved software maintainability and bug detection efficiency.
- Implemented microservices architecture using Spring Boot and message-based systems (Kafka, RabbitMQ, and IBM MQ) with JMS API for downstream operations, facilitating the synchronized data flow back to Oracle and MongoDB.
- Leveraged Kafka within the microservices architecture to establish real-time communication channels, ensuring efficient and reliable data updates across both relational and NoSQL databases.
- Skilled in deploying containerized applications with Kubernetes, ensuring scalability, reliability, and seamless orchestration.
- Proficiently executed ETL workflows using Informatica, optimizing data extraction and loading. Leveraged BMC Control-M for streamlined batch scheduling, enhancing data processing efficiency. Crafted precise batch scripts for error handling and system monitoring, resulting in a 20% improvement in overall data processing speed.

Accenture, Application Development Associate – Hyderabad, India November 2016-September 2017

- Led the successful development and deployment of a mission-critical enterprise-level web application, utilizing Java Enterprise Edition (J2EE), Spring Framework, and RESTful web services.
- Demonstrated expertise in database integration by writing complex PL/SQL blocks, functions, and procedures for transactional database systems including Oracle and SQL Server focusing on enhancing SQL performance and optimizing queries.
- Implemented CI/CD processes using GIT and Jenkins, creating Jenkins jobs and managing Maven builds. Orchestrated Docker image creation and deployment in the AWS and GCP, ensuring a streamlined and automated deployment pipeline.

Research Experience

Clark University - Research Assistant under professor Lewis Tseng - Worcester, MA, USA

- Designed NC-DHT, a groundbreaking Distributed Hash Table (DHT) system addressing security and privacy challenges. Leveraged a pioneering integration of quorum topology and Reed-Solomon network coding.
- Applied encoding and decoding techniques to enhance data integrity in a distributed system. Developed a robust solution for error detection and correction in data transmission, ensuring reliability and accuracy in distributed systems.

RELATED PROJECTS

Social Media Dashboard (Front end-React.js and Node.js, GraphQL framework): Enabled feed aggregation, post scheduling, and engagement analytics. Implemented MongoDB for data storage, OAuth for secure authentication, and Chart.js for data visualization.
Learning Platform (UI/UX Express.js, Python, Linux, Ansible, Flask, Mongo): Integrated speech recognition (Google Cloud Speech API) for pronunciation assessment, gamified elements for engagement, and MongoDB for the Back end for user profiles and progress.
D3 Code Generator (Firebase): Developed a Web application in React JS to enter the data and get the code for desired graph in D3.

CERTIFICATIONS

- Full Stack Development Using React (MERN Stack), Coursera, Aug 2023