LOKESH RENGARAJU

Portfolio | Imalia Linked In | 1858-319-5663 | Mokeshrengaraju 21@gmail.com | GitHub | Leetcode | San Diego, California | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907

Summary

Aspiring Software Developer with 2 years of experience in creating and improving software applications. Proficient in Backend Development and Machine Learning. Known for collaborating seamlessly within Agile teams to deliver scalable, high-performance solutions that meet user needs and business goals. Skilled in developing robust, user-friendly applications and driving continuous improvement in software functionality.

Education

Master of Science in Computer Science

San Diego State University

San Diego, CA, USA

(08/2022 - 05/2024)

CGPA: 3.87/4

Coursework: Modern Full-stack Web Development, Theory of Parallel Algorithms, Machine Learning, Advanced Multimedia Networks,
Algorithm Analysis and Design, Principles and Techniques of Data Science, Advanced Object-Oriented Programming & Design Patterns.

Bachelor of Engineering in Computer Science - CGPA: 8.44/10

Anna University

Chennai, TN, India

(08/2018 - 05/2022)

Coursework: Cloud Computing and Security, Big Data Analytics, Artificial Intelligence, Computer Architecture, Theory of Computation,
Operating Systems, Cryptography and Network security, Data Warehousing and Data Mining, Distributed Systems.

Experience

Research Assistant Al4Business Lab, SDSU Research Foundation

San Diego

(05/2024 - Present)

- Designed and implemented a modular Medical Question-Answering system integrating NLP, BERT models, and Knowledge Graphs, achieving a 90% accuracy rate on benchmark medical QA datasets and reducing query processing time by 35%.
- Enhanced system scalability and adaptability by developing query preprocessing, semantic search, and domain-specific knowledge representation, improving response relevance by 20% as measured by user feedback analysis.

Software Engineer Intern

Shiash Info Solutions Private Limited

Chennai, India

(05/2020 - 05/2021)

- Collaborated in a 15-member Agile team to develop scalable software, implemented continuous Integration/continuous deployment (CI/CD) pipelines, and reduced deployment time by 50%.
- Optimized **SQL** queries using indexing, partitioning, and query execution plan analysis, resulting in a 40% reduction in data retrieval time and improving overall **database** performance by 35%.
- Engineered a high-performance chatbot using Python, **Flask**, and **NLP** libraries, integrating **RESTful APIs** for real-time communication, which improved website response time by 30% and boosted user engagement by 25%.

Projects_

Employee Management System

(08/2023)

- Developed a full-stack web application for employee management using React.js and Bootstrap for the frontend, and Node.js for the backend, implementing CRUD operations for employee data and performance tracking.
- Designed an intuitive UI and secure architecture, conducting thorough UI and API testing, resulting in efficient management of 1000+ employee records stored in **MongoDB** with optimized performance.

Job Portal using Spring Boot

(01/2023)

Designed and implemented a full-stack Job Portal using Java, Spring Boot, and React, serving over 10,000 users monthly. Enhanced job match accuracy by 45% through advanced search features and implemented secure file storage with AWS S3. Responsive design improvements led to a 30% increase in mobile retention and, enhancing user engagement by 40%.

• To-Do API Integration Testing

(01/2024)

- Developed a Python script to automate integration testing for a RESTful To-Do API using the requests library, testing core functionalities like task creation, updating, listing, and deletion.
- ♦ Implemented **test cases** for end-to-end API validation, ensuring reliable task management operations and improving API response accuracy by 20%.

Skills

Programming Language: Python, C, Java, C++, JavaScript, SQL.

Databases & Cloud: MySQL, MongoDB, PostgreSQL, AWS (Lambda, EC2, S3), Azure, Databricks.
 Web Technologies: Node.js, React, HTML, CSS, Spring Boot, Django, RESTful API, TypeScript, Angular.

Development Tools & OS:
 ML Framework:
 Git, Agile, Docker, Kubernetes, Red Hat, Linux.
 Pandas, NumPy, Scikit-learn, PyTorch, PyTest.

Certificate

- Advanced Certificate in Web and Mobile Applications Development from San Diego State University Global Campus.
- Red Hat Certified System Administrator: Credential ID 200-029-049

(05/2024)

(08/2020)

CCNA Routing and Switching: Introduction to Networks (NetAcad)

(05/2021)