SAI KIRAN REDDY KOTHA

Cincinnati, Ohio, 45220 (Open to relocate)
+1 513-302-4455 | kothasn@mail.uc.edu | www.linkedin.com/in/saikiranreddykotha

EDUCATION

Master of Science, Information Technology **January 2024- Graduation Date-April 2025**
University of Cincinnati, Cincinnati, Ohio CGPA: 4.0/4.00
Relevant Coursework: Advanced Algorithms, Database Management Systems, Web Technologies, Cloud Computing, Software Engineering, Big Data Analytics, Microsoft Azure, Computer Networks, Cybersecurity.

B Tech, Electronics and Computer Engineering **August 2019 – June 2023**
Sreenidhi Institute of Science and Technology ,Hyderabad, India CGPA: 3.63/4.00

TECHNICAL SKILLS

Programming Languages	Java, JavaScript, Python, SQL, C, C++
Libraries & Frameworks	Spring Boot, Spring MVC, React.js, Node.js, Spring Data JPA, Hibernate, REST Api, GraphQL, JUnit, Jenkins, Docker, TensorFlow, OpenCV, Pandas, Scikit-learn, Matplotlib
Databases	MySQL, MySQL Server, PostgreSQL
Cloud Services	AWS, Microsoft Azure
OS	Windows, MacOS, Linux, iOS, Android
Tools	VS Code, IntelliJ, Jupyter Notebook, PyCharm, Git, GitHub
Other Skills	Data Structures and Algorithms, Competitive Programming, MS Office (Word, Excel, PowerPoint), Web Application Security, Network Protocols, ETL processes, Data Transformation

PROFESSIONAL EXPERIENCE

Software Engineer, *Broadridge, India* **February 2023 – September 2023**
- Built a transaction tracking dashboard using React.js and Redux, boosting UI performance by 30% and reducing bugs by 20%.
- Developed RESTful APIs in Spring Boot for seamless transaction management between front-end and back-end.
- Improved the efficiency of database queries for transaction history retrieval by 40% using multithreading and Hibernate ORM, resulting in quicker user access.
- Implemented secure user authentication and authorization with JWT tokens and OAuth, reducing unauthorized access attempts by 70% and increasing user trust in the platform.
- Automated testing and deployment using Jenkins-based CI/CD pipelines, reducing manual errors by 60% and cutting deployment time by 40%.
- Managed Git repositories and used JIRA for issue tracking, improving project delivery timelines by 20% through active participation in Agile methodologies.

AWS Cloud Virtual Internship, *EduSkills Foundation, India* **March 2022 –May 2022**
- Gained hands-on experience with key AWS services, including EC2, S3, DynamoDB, RDS, Lambda, and VPC, by completing practical labs.
- Explored cloud infrastructure concepts, enhancing knowledge in scalable computing, storage solutions, and network management using AWS technologies.
- Implemented AWS best practices in security, data management, and deployment, improving overall cloud proficiency.

Machine Learning Intern, *1Stop.ai, India* **September 2021 –November 2021**
- Developed an email classifier using Naive Bayes and Bag-of-Words, achieving 97% accuracy in distinguishing spam emails.
- Conducted data preprocessing and feature extraction to optimize the performance of the classifier.
- Collaborated with a team to test and validate the model, ensuring reliable email filtering in real-world scenarios.

PROJECTS

TODO Management Web Application (Java | Spring Boot | React | MySQL)
- Developed a scalable multi-user TODO management app with React.js, Spring Boot, and MySQL, enhancing user authentication with JWT and role-based access control (RBAC) for 100% secure sessions.
- Reduced API response time by 40% through optimized database schemas and SQL queries, improving system performance.
- Deployed the app on AWS with Docker containers, reducing deployment time by 30% and automating deployment using Jenkins CI/CD pipelines.

REST API for Social Media Application (Java | Spring Boot | React | MySQL)
- Built RESTful APIs for user and post management with Spring Boot and MySQL, optimizing data for high-traffic environments.
- Enhanced API throughput by reducing latency by 30%, ensuring seamless performance under load.
- Streamlined development workflows with Jenkins-driven CI/CD, cutting deployment time by 50%.

Pothole Detection Using CNN (Python | OpenCV | CNN | NumPy | TensorFlow)
- Created a CNN-based machine learning model for pothole detection, reducing false positives by 30%.
- Processed over 1K records to construct a robust training and testing pipeline, improving model accuracy and reliability.
- Improved object detection on roads by integrating location tracking via IP addresses, minimizing error rates during deployment.