

VAMSI MAKKE

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TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript

Cloud Platforms: GCP, AWS(S3, EC2, Lambda), Kubernetes

System Design: Microservices, API Design, REST, SOAP

Databases: MySQL, SQL Server, MongoDB, Redis

Frameworks: Spring Boot, ReactJS, OAuth 2.0

Frontend Tools: HTML5, CSS3, Bootstrap, jQuery, Tailwind CSS

Software Development Tools: Docker, Apache Kafka, Apache Tomcat, Git/GitHub, Maven

Testing: Junit, Mockito, Test Containers

PROFESSIONAL EXPERIENCE

NERDS, University of Cincinnati, Cincinnati, Ohio | Software Engineer Intern

Apr 2024- Present

- Built Spring Boot APIs to enhance secure data submissions, reducing data transfer time to SQL by 30%.
- Leveraged Kafka for data streaming, cutting delivery latency by 25%, optimizing scalability for concurrent requests.
- Integrated Redis caching to reduce MySQL query load by 40%, boosting API response times.
- Strengthened data integrity via robust validation/sanitization, lowering error rates by 35%.

Cognizant Technology Solutions, Hyderabad, India | Software Engineer Intern

Dec 2022-Dec 2023

- Developed a full-stack web application (Spring Boot, React.js, MySQL), driving a 30% user engagement increase.
- Enhanced data retrieval efficiency by 20% through optimized MySQL database solutions.
- Elevated UX with a mobile-responsive design, decreasing bounce rates by 30%, and boosting average session durations.

EDUCATION

University of Cincinnati, Cincinnati, OH

Jan 2024 – Apr 2025

Masters of Science in Information Technology

GPA: 4.0/4.0

Relevant Coursework: Advanced Storage Technologies, Principles of Cybersecurity, Advanced Algorithms, Software Engineering, Tech for Mobiles Apps.

PROJECTS

Social Media App

- Engineered a scalable full-stack application with posting, commenting, and user authentication features.
- Optimized API request handling, achieving a 40% reduction in response time for 1,500+ concurrent users.
- Integrated MongoDB for seamless data management, reducing query latency by 35%.
- Tech Stack: Node.js, Express.js, React.js, MongoDB

E-Wallet API

- Designed a microservices-based e-wallet (Spring Boot, Kafka, Redis, MySQL), boosting transaction speed by 40% for 2,000+ concurrent users with multithreading and caching.
- Refined application speed by 35% with Redis caching and increased system scalability through microservice architecture.
- Boosted system scalability by implementing Kafka for efficient messaging, reducing latency by 30% during peak usage.

User-Rental API

- Implemented a scalable backend for product rentals (Spring Boot, MySQL), reducing booking time by 15% and supporting 1,000+ concurrent users.
- Streamlined deployment setup with Docker, reducing setup time by 25%.

ACHIEVEMENTS

VIRTUSA NEURAL HACK S6 WINNER-III

Collaborated with a cross-functional team to secure a top-three placement among 1,000+ participants in a competitive hackathon, achieving a 15% improvement in system efficiency.

LEETCODE (1800+ rating)

Solved 1,000+ problems, showcasing proficiency in coding algorithms and data structures.

LEADERSHIP AND VOLUNTEER ACTIVITIES

Captain of college soccer team

Led the team to three consecutive intramural tournament finals, fostering a culture of strategic planning and teamwork.

Secretary, ACM Chapter, Vasireddy Venkatadri Institute of Technology

Responsible for conducting workshops and hackathons, empowering developers to enhance their technical skills and engage in real-world challenges.