

VAMSI MAKKE

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SKILLS

Programming Languages: Java, Python, JavaScript

Cloud: 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

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

Testing: Junit, Mockito

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.
- Established a CI/CD pipeline, reducing deployment time by 40% and enabling daily releases with 30% fewer errors.
- Elevated UX with a mobile-responsive design, decreasing bounce rates by 30%, and boosting average session durations.

EDUCATION

University of Cincinnati, Cincinnati, OH

Masters of Science in Information Technology

Jan 2024 – Apr 2025

GPA: 4.0/4.0

Relevant Coursework: Advanced Storage Technologies, Grad Topics in IT, Advanced Algorithms, Software Engineering, Tech for Mobiles Apps.

Vasireddy Venkatadri Institute of Technology, Andhra Pradesh, India

Bachelor of Technology in Computer Science and Engineering

Aug 2019 – Apr 2023

GPA: 8.32/10

Relevant Coursework: Operating Systems, Database Management Systems, System Design, Computer Networks, Design and Analysis of Algorithms, Cloud Computing, UNIX Programming.

PROJECTS

Social Media API

- Orchestrated the development of a scalable social media API using Node.js, Express.js, and MongoDB, delivering 10+ endpoints and reducing response time by 40%.

E-Wallet

- 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

- Built 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%.

EMI Calculator

- Created a full-stack solution (Spring Boot, React.js, MySQL), achieving a 30% increase in user interactions and reducing calculation time by 20%.
- Developed a scalable social media API with 10+ endpoints using Node.js, Express.js, and MongoDB, achieving a 40% reduction in response time through optimized request handling.

ACHIEVEMENTS

VIRTUSA NEURAL HACK S6 WINNER-III

Achieved top-three placement among 1,000+ participants, enhancing system efficiency by 15%.

LEETCODE (1800+ rating)

Solved 1,000+ problems, showcasing proficiency in 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.

Event Planner, Student Activity Council, Vasireddy Venkatadri Institute of Technology, India: Spearheaded VIVA VVIT annual fest and coordinated multiple college events, significantly boosting student engagement by 15%.