

# VAMSI MAKKE

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## SKILLS

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**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, Tailwind CSS

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

**Testing:** Junit, Mockito

## PROFESSIONAL EXPERIENCE

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**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

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**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

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### 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

- 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%.

#### **EMI Calculator**

- Delivered a full-stack solution (Spring Boot, React.js, MySQL), achieving a 30% increase in user interactions and reducing calculation time by 20%.

### **ACHIEVEMENTS**

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#### **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**

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**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%.