

# VAMSI MAKKE

Cincinnati, OH

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## EDUCATION

### University of Cincinnati

Jan 2024 - Apr 2025

*Masters of Science, Information Technology* (GPA: 4.0/4.0)

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

### Vasireddy Venkatadi Institute of Technology

Aug 2019 - Apr 2023

*Bachelor of Technology, Computer Science and Engineering* (GPA: 8.32/10)

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

## PROFESSIONAL EXPERIENCE

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

Apr 2024 - Present

- Built scalable and reusable Spring Boot APIs, incorporating best practices to ensure maintainability and performance.
- Leveraged Kafka for data streaming to optimize scalability and reduce delivery latency, improving the system's ability to handle concurrent requests.
- Integrated Redis caching, reducing MySQL query load and boosting API response times to improve system performance.
- Strengthened data integrity through robust validation and sanitization, effectively reducing error rates and enhancing application reliability.

### Cognizant Technology Solutions | Software Engineer Intern

Dec 2022 - Dec 2023

- Developed a full-stack web application using Java, Spring Boot, React.js, and MySQL, applying agile development practices to increase user engagement.
- Built clean, modular UI components in React.js, enhancing the front-end development process and ensuring application maintainability.
- Enhanced data retrieval efficiency through optimized MySQL database solutions, leveraging relational database technologies.
- Established a Continuous Integration/Continuous Deployment (CI/CD) pipeline, streamlining deployment processes and adhering to industry best practices.

## 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%.

## 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

## 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 coding algorithms and data structures.