

# 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 Venkatadri 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 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 | *Software Engineer Intern*

Dec 2022 - Dec 2023

- Developed a full-stack web application (Java, Spring Boot, React.js, MySQL) that increased user engagement by 30%.
- Built clean and modular UI components in React.js, enhancing the front-end development process.
- Enhanced data retrieval efficiency by 20% through optimized MySQL database solutions.
- Established a CI/CD pipeline using industry best practices, reducing deployment time by 40% and enabling daily releases with 30% fewer errors.

## 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.