

VAMSI MAKKE

Cincinnati, OH

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Summary

Detail-oriented Software Engineer with a strong foundation in Java, Python, and the MERN stack, specializing in clean, scalable API design and full-stack development. Experienced in building reusable systems, integrating front-end and back-end technologies in agile environments. Proven track record of reducing deployment times and enhancing application performance through hands-on internship projects. Passionate about leveraging modern technologies to deliver robust, future-ready software solutions.

SKILLS

- **Programming Languages:** Java, Python, JavaScript, C++, C
- **Cloud Platforms:** GCP, AWS(S3, EC2, Lambda), Kubernetes
- **System Design:** Microservices, API Design, REST, SOAP, Client-Server Architectures, Networking Protocols, Service Oriented Architectures (SOA)
- **Databases:** MySQL, SQL Server, MongoDB, Redis
- **Framework:** Spring Boot, ReactJS, OAuth 2.0
- **Software Development Tools:** Docker, Apache Kafka, Apache Tomcat, Git/GitHub, Maven
- **Testing:** Junit, Mockito, Test Containers
- **Development Methodologies:** Agile Methodology, Application Development

EDUCATION

University of Cincinnati

Jan 2024 - Apr 2025

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

Cincinnati, OH

- **Coursework:** Principles of Cybersecurity, Advanced Algorithms, Software Engineering, Mobile Application Development, Cloud Computing

PROFESSIONAL EXPERIENCE

NERDS, University of Cincinnati | *Software Engineer Intern*

Apr 2024 - Present

- Engineered scalable and reusable Spring Boot APIs that adhere to best practices for maintainability and performance.
- Utilized Apache Kafka for data streaming to enhance scalability and reduce delivery latency by 25%, ensuring efficient handling of concurrent requests.
- Integrated Redis caching to decrease MySQL query load and boost API response times, thereby optimizing overall system performance.
- Enhanced data integrity through rigorous validation and sanitization, effectively reducing error rates and reinforcing application reliability.

Cognizant Technology Solutions | *Software Engineer Intern*

Dec 2022 - Dec 2023

- Engineered the backend components of a full-stack web application using Java, Spring Boot, and MySQL within an Agile framework to establish a modular and scalable architecture.
- Constructed maintainable React.js UI components to ensure seamless integration with backend services and support a robust client-server architecture.
- Optimized MySQL database solutions for efficient and scalable data retrieval, leveraging relational database technologies.
- Implemented a Continuous Integration/Continuous Deployment (CI/CD) pipeline to streamline deployment processes and maintain high-quality software standards.

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%.

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** | Achieved top-three placement among 100,000+ participants, enhancing system efficiency by 15%.
- **LEETCODE (1800+ rating)** | Solved 1,000+ problems, showcasing proficiency in coding algorithms and data structures.