Vamsi Makke

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Professional Summary

Backend and full-stack software engineer with strong skills in **Java Stack, MERN stack**, and cloud-based scalable systems. Experienced in designing **distributed microservices**, building robust APIs, and delivering production-grade solutions. Solved over 1300 LeetCode problems (Top 7% globally) and proficient in **DSA, system design, concurrency, and performance optimization**. Passionate about building efficient, maintainable, and high-performance software for real-world applications.

Technical Skills

Languages: Java, JavaScript, Python, C#, SQL
Backend: REST APIs, GraphQL, Microservices, Node.js, Spring Boot, Express.js
Frontend: React.js, HTML5, CSS3, Material-UI
Databases: PostgreSQL, MySQL, MongoDB, Redis, indexing, query optimization
Cloud & DevOps: AWS (EC2, S3, Lambda), Docker, Kubernetes, CI/CD, GitHub Actions, Linux, Terraform, Ansible
Other: Concurrency, multithreading, caching, system design, performance profiling, debugging

Education

University of Cincinnati, Cincinnati OH — Jan 2024 to May 2025
Master of Science in Information Technology — GPA: 4.0
Vasireddy Venkatadri Institute of Technology, India — Sep 2019 to Apr 2023
Bachelor of Technology in Computer Science and Engineering

Experience

Software Engineering Intern | TORQ Sports, Woodland Hills CA — Jun 2025 to Present
- Built backend microservices in Java and Node.js with PostgreSQL for thousands of active sports fans.
- Implemented caching, indexing, and query optimization improving API response time by 45%.
- Designed REST APIs for video delivery, real-time interactions, and user profile systems.
- Debugged production issues using structured logging and performance profiling.

Software Engineer Intern | NERDS Lab, University of Cincinnati — Apr 2024 to Apr 2025
- Developed backend services using Python and PostgreSQL for low-latency data pipelines.
- Collaborated on secure microservices and API integrations with frontend applications.
- Added monitoring, logging, and alerting for production systems.
- Optimized data queries to reduce processing time by 35%.

Software Engineer Intern | Cognizant Technology Solutions, Hyderabad India — Dec 2022 to Dec 2023
- Developed backend modules with Spring Boot and SQL for enterprise clients.
- Created unit and integration tests improving reliability of critical services.
- Participated in code reviews and Agile ceremonies to maintain high code quality.
- Implemented reusable modules to improve service scalability and maintainability.

Projects

High Performance Video Platform Backend | Java, PostgreSQL, Redis, AWS
- Designed backend for secure video content delivery to thousands of users.
- Implemented Redis caching for feed ranking and metadata, reducing request time by 50%.
- Built concurrency-safe logic for likes, views, and comments using atomic operations.
- Developed REST APIs consumed by mobile and web clients.

E-Wallet Backend System | Java, Kafka, Docker, PostgreSQL
- Built distributed wallet microservices ensuring strong consistency and reliable messaging.
- Implemented real-time balance reconciliation and transaction workflows.
- Designed APIs for fund transfers, history, and balance queries.
- Added automated tests for transaction reliability and performance monitoring.

Social Media Full-Stack Application | MERN Stack (MongoDB, Express.js, React.js, Node.js)
- Built full-stack social media platform with React frontend and Node.js backend.
- Implemented REST APIs for user management, posts, comments, likes, and follows.
- Added JWT-based authentication and role-based authorization.
- Designed MongoDB schemas and implemented indexing for fast data retrieval.

Achievements

- Top 7% LeetCode globally with over 1300 solved problems.
- Placed 3rd in Virtusa Neural Hack S6 among 1000+ participants.
- Reverse Coding Champion for algorithmic problem solving and optimized design.