

Vamsi Makke

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PROFESSIONAL SUMMARY

Software Development Engineer with strong foundations in data structures, algorithms, and object oriented design. Experienced in building scalable cloud native distributed systems using Java, Node.js, Python, and AWS. Owned backend services from design through production, improving performance and reliability for systems serving **50k+ users**. Strong problem solving background with **1500+ LeetCode problems solved**, a **max contest rating of 1898**, and ranking in the **Top 4.37% globally**.

TECHNICAL SKILLS

Languages: Java, Node.js, Python, JavaScript, SQL, Bash

Backend and Systems: Spring Boot, Express.js, REST APIs, Microservices, Apache Kafka

Cloud and DevOps: AWS, Docker, Kubernetes, CI/CD, GitHub Actions, Jenkins

Databases: PostgreSQL, MySQL, MongoDB, Redis

Core CS: Data Structures and Algorithms, Object Oriented Design, Distributed Systems, System Design

EDUCATION

University of Cincinnati, Cincinnati, OH

Jan 2024 – May 2025

Master of Science in Information Technology

GPA: 4.0 / 4.0

Vasireddy Venkatadri Institute of Technology, India

Sep 2019 – Apr 2023

Bachelor of Technology in Computer Science and Engineering

EXPERIENCE

Software Engineer | TORQ Sports, Woodland Hills, CA – Remote

Jun 2025 – Present

- Owned backend services built with Node.js and PostgreSQL supporting core user flows for a consumer facing platform with **50k+ active users**.
- Led the migration of the video transcoding module from a monolith to a dedicated microservice, reducing average upload processing time from **1 min 30 sec to 25 sec** and enabling independent deployments.
- Built CI/CD pipelines using GitHub Actions to automate builds and deployments across environments, reducing deployment time by **43%** and improving release reliability.
- Partnered with frontend and product teams to design scalable backend features aligned with user requirements.
- Evaluated multiple PostgreSQL indexing strategies and optimized for read heavy access patterns, reducing search latency from **1.2s to 450ms**.
- Improved API response times from **800ms to 350ms** by analyzing production bottlenecks and optimizing database access.
- Investigated production regressions using logs and metrics, prioritizing fixes based on user impact.

Software Engineer Intern | Cognizant Technology Solutions

Mar 2023 – Jul 2023

- Developed and maintained production services using Java, Spring Boot, React, and MySQL.
- Optimized database access patterns and connection pooling, improving query performance by **37%**.
- Built CI/CD pipelines to automate builds and deployments, reducing release cycles.
- Wrote unit and integration tests to ensure correctness and long term maintainability.

ACADEMIC & VOLUNTEER EXPERIENCE

Graduate Researcher – Software Engineer (Volunteer) | University of Cincinnati

Apr 2024 – Apr 2025

- Contributed as a volunteer software engineer on an academic research project supporting data intensive systems.
- Built Spring Boot services for secure ingestion and processing of research datasets.
- Developed Kafka based pipelines handling approximately **10k events per day**.
- Integrated Redis caching to reduce database load and improve response times.
- Used AI assisted tools to accelerate experimentation and development iterations.

PROJECTS

E Wallet Distributed System | Java, Spring Boot, Kafka, Redis, Docker

- Designed a microservices based digital wallet system with emphasis on scalability and fault tolerance.
- Implemented asynchronous transaction processing using Kafka to support concurrent fund transfers.
- Implemented idempotent transaction handling to prevent duplicate processing under concurrent requests.
- Containerized services using Docker for consistent local and cloud deployments.

Social Media Platform | React, Node.js, MongoDB

- Built a full stack social media application with authentication, content feeds, and real time interactions.
- Designed REST APIs and optimized MongoDB schemas to support high read and write throughput.

ML Based Sentiment Analyzer | Python, NLP, Scikit learn

- Developed a machine learning pipeline for text classification using natural language processing techniques.
- Implemented data preprocessing, feature extraction, and model evaluation workflows.

ACHIEVEMENTS

- Solved **1500+** algorithmic problems on LeetCode, ranking in the **Top 4.37%** globally.
- Achieved a **maximum LeetCode contest rating of 1898**.
- Awarded third place at Virtusa Neural Hack S6 among over **1000 participants**.