VAMSI MAKKE

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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

PROFESSIONAL EXPERIENCE

NERDS, University of Cincinnati, Cincinnati, Ohio | Software Engineer Intern   Apr 2024- Present
- Built 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, Hyderabad, India | Software Engineer Intern   Dec 2022-Dec 2023
- Developed a full-stack web application (Spring Boot, React.js, MySQL), driving a 30% user engagement increase.
- Enhanced data retrieval efficiency by 20% through optimized MySQL database solutions.
- Established a CI/CD pipeline, reducing deployment time by 40% and enabling daily releases with 30% fewer errors.
- Elevated UX with a mobile-responsive design, decreasing bounce rates by 30%, and boosting average session durations.

EDUCATION

University of Cincinnati, Cincinnati, OH   **Jan 2024 – Apr 2025**
Masters of Science in Information Technology   GPA: 4.0/4.0

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

Vasireddy Venkatadri Institute of Technology, Andhra Pradesh, India   **Aug 2019 – Apr 2023**
Bachelor of Technology in Computer Science and Engineering   GPA: 8.32/10

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

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%.

EMI Calculator
- Delivered a full-stack solution (Spring Boot, React.js, MySQL), achieving a 30% increase in user interactions and reducing calculation time by 20%.

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.

LEADERSHIP AND VOLUNTEER ACTIVITIES

Secretary, ACM Chapter, Vasireddy Venkatadri Institute of Technology
- Served as the Secretary of the ACM Student Chapter, fostering collaboration and innovation among members.
- Responsible for conducting workshops and hackathons, empowering developers to enhance their technical skills and engage in real-world problem-solving.

CAPTAIN OF COLLEGE SOCCER TEAM
Led the team to three consecutive intramural tournament finals, fostering a culture of strategic planning and teamwork.

Event Planner, Student Activity Council, Vasireddy Venkatadri Institute of Technology, India
Spearheaded VIVA VVIT annual fest and coordinated multiple college events, significantly boosting student engagement by 15%.