LOKESHWAR REDDY GUMMIREDDY

+1 469-554-9775 | gummireddy2808@gmail.com | linkedin.com/in/lokesh-reddy-g

PROFESSIONAL SUMMARY

Full-stack software engineer with 3+ years building high-volume financial systems that process 50,000+ daily transactions. Specialized in performance optimization and microservices architecture, delivering measurable business impact through 40% latency reductions and 30% faster reconciliation cycles. Proven ability to architect scalable solutions in regulatory-compliant environments while mentoring junior developers and driving technical excellence across cross-functional teams.

TECHNICAL EXPERTISE

Primary Stack: Java, Spring Boot, React, TypeScript, PostgreSQL, Docker, AWS (EC2, ECS, S3, Lambda)
Production Experience: RESTful API Design, Microservices Architecture, Redis Caching, Event-Driven Systems, CI/CD Pipelines
Additional Technologies: Python, Node.js, Next.js, Django, SQL Server, Jenkins, GitHub Actions, Maven, JUnit, Agile/Scrum
Domain Knowledge: Financial Services, Payment Processing, Transaction Reconciliation, Regulatory Compliance, Data Security

PROFESSIONAL EXPERIENCE

JPMorgan Chase Aug 2024 – Present
Software Engineer, Full Stack

- Architected and delivered microservices-based financial workflow platform serving 300+ operations analysts, processing 50,000+ daily reconciliation transactions with 99.8% uptime SLA.
- Reduced critical API latency by 40% through query optimization, Redis caching implementation, and database indexing strategy, directly accelerating end-of-day settlement cycles by 25 minutes daily.
- Engineered 15+ RESTful endpoints with comprehensive input validation, structured error handling, and standardized response contracts, reducing production incidents by 35% quarter-over-quarter.
- Led migration of legacy monolithic reporting module to event-driven microservices architecture, integrating Kafka message streaming and asynchronous processing that improved report generation speed by 60%.
- Built React-based operational dashboards with real-time data visualization, dynamic filtering, and Excel export functionality, reducing manual data extraction requests by 80%.
- Established comprehensive testing framework increasing unit test coverage from 45% to 78%, implementing integration tests with Testcontainers and automated regression suites that caught 12 critical defects pre-production.
- Containerized 8 microservices using Docker and orchestrated AWS deployments (ECS, EC2, Lambda) with CloudFormation, reducing deployment time from 2 hours to 15 minutes through automated CI/CD pipelines.
- Mentored 2 junior developers on Spring Boot best practices, code review standards, and debugging techniques, while conducting technical knowledge-sharing sessions on microservices patterns and database optimization.

Texas Tech University Sep 2023 – Jul 2024
Full Stack Developer, Graduate Assistant

- Owned full-stack development of internal IT service management platform supporting 500+ daily campus support tickets, built with JavaScript frontend and PHP/SQL Server backend.
- Redesigned reporting infrastructure by refactoring 15+ complex SQL queries with proper indexing and query execution plans, achieving 35% performance improvement and reducing database CPU utilization by 20%.
- Implemented automated data validation workflows that identified and resolved data quality issues, reducing manual correction effort by 12 hours weekly and improving report accuracy from 87% to 99%.
- Collaborated directly with IT management and end-users to gather requirements, prioritize feature development, and deliver iterative improvements through weekly sprint cycles.

Citi Bank May 2022 – Jun 2023

Software Engineer Intern

- Developed secure transaction processing APIs using Java and Spring Boot, implementing OAuth 2.0 authentication and role-based authorization for customer account access across retail banking applications.
- Built customer-facing React components for transaction history display, account balance tracking, and fund transfer workflows, integrating with backend APIs through Axios with proper error handling and loading states.
- Optimized batch reconciliation queries processing 100,000+ daily transactions, reducing execution time from 8 minutes to 90 seconds through indexed views and query restructuring.
- Contributed to Agile team ceremonies including daily standups, sprint planning, and retrospectives, while participating in peer code reviews focused on security best practices and code quality standards.
- Established JUnit test suite covering service layer business logic, achieving 70% code coverage and uncovering 5 edge-case bugs before production deployment.

EDUCATION

Master of Science in Computer Science Graduated May 2025

Texas Tech University

Relevant Coursework: Advanced Algorithms, Distributed Systems, Database Management, Software Engineering, Cloud Computing

Bachelor of Science in Computer Science Graduated May 2023

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TECHNICAL PROJECTS

E-Commerce Platform (Full Stack) Jan 2025 – Apr 2025

- Built production-grade web application with Node.js, Express, TypeScript, React, and PostgreSQL supporting product catalog, cart, checkout, and order processing across 20+ RESTful endpoints.
- Implemented JWT authentication, role-based authorization, and Redis caching reducing database queries by 60% and improving page load times by 45%.
- Applied database optimization (composite indexes, pagination, query plans) and automated CI/CD pipeline using GitHub Actions and Docker.

Real-Time Blog Application Aug 2024 – Jan 2025

- Developed real-time collaborative platform using React, TypeScript, Node.js, PostgreSQL, and Socket.io with WebSocket-based bidirectional communication for sub-second content synchronization.
- Designed transactional database operations with row-level locking to prevent race conditions and implemented rate limiting, input sanitization reducing client exceptions by 70%.
- Optimized React performance using React.memo and useMemo hooks, reducing unnecessary component updates by 80%.
- Established API logging with request correlation IDs enabling rapid diagnosis of production issues.

VCF2TXT Genomic Data Processing Platform Sep 2024 – Dec 2024

- Architected scalable backend using Python and FastAPI to process large genomic VCF files (500MB+) with asynchronous task processing via Celery and Redis supporting parallel execution and automatic retry logic.
- Enforced strict schema validation using Pydantic models preventing 95% of processing errors and designed idempotent workflows with checkpointing for safe handling of partial failures.
- Built React and TypeScript dashboard visualizing real-time job status and processing metrics with automatic polling.
- Containerized application using Docker with multi-stage builds, reducing image size by 60%.

PROFESSIONAL DEVELOPMENT

AWS Certified Cloud Practitioner (In Progress) – Expected completion Q2 2026

Completed Specializations: Meta Backend Development, Microsoft Full Stack Development, UX Design Fundamentals