Bhargav Kumar Reddy Annavaram
Java Full Stack Developer

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PROFESSIONAL SUMMARY:

- 4+ years of experience as a Java Full Stack Developer with a proven track record of architecting, developing and deploying high-performance, scalable and secure financial applications.
- Expert in optimizing system efficiency, demonstrated by significant reductions in API latency and database query load, coupled with substantial increases in transactional throughput through event-driven architectures.
- Skilled in building real-time fraud detection systems, dynamic, responsive user interfaces and robust microservices. Proficient in end-to-end CI/CD automation, ensuring rapid and reliable deployments.
- Comprehensive technical expertise includes Java 17, Spring Boot 3+, Quarkus, Python, TensorFlow, Machine Learning, GraphQL, Kafka, RabbitMQ, Redis, Next.js, React 18+, TypeScript, Redux, Material UI, Tailwind CSS, Django REST Framework, WebSockets, STOMP, Azure DevOps, GitHub Actions, Terraform, Jenkins, Docker, Kubernetes, AWS, MySQL, MongoDB, JUnit 5, REST Assured, TestNG, Cucumber, Spring Security and OAuth2.
- Committed to delivering compliant and innovative software solutions.

TECHNICAL SKILLS:

Back-End: Java 17, Spring Boot 3+, RESTful APIs, GraphQL, Python (Django REST), Node.js, Akka/Scala

Microservices & Architecture: Microservices, Event-Driven Design, API Gateway, WebSockets/STOMP, Redis Caching, Serverless

Cloud & Containers: AWS (EC2, S3, Lambda), Azure; IaC (Terraform); Docker, Kubernetes

Data & Messaging: MySQL, PostgreSQL, MongoDB, Cassandra, Redis; Apache Kafka, RabbitMQ

Frontend (supporting): React 18+, Angular/AngularJS, TypeScript, Next.js, Material UI, Tailwind

Big Data & Search: ElasticSearch, Hadoop/Spark/Flume (academic/POC experience)

DevOps & CI/CD: GitHub Actions, Azure DevOps, Jenkins; Git, Jira; Swagger/OpenAPI, Postman

Testing & Quality: JUnit 5, Mockito, REST Assured, Selenium; Cucumber (BDD); Integration/Regression Testing; TDD/BDD

Security & Compliance: Spring Security, OAuth2; OWASP Top 10, SOC 2, PCI DSS; familiarity with Actimize compliance workflows

PROFESSIONAL EXPERIENCE:

Charles Schwab – TX | May 2024 – Present
Full Stack Developer

- Implemented advanced Redis caching strategies, reducing database query load by 60% and accelerating financial transaction processing across distributed systems.
- Built robust microservices using Java 17, Spring Boot 3+ and Quarkus, enabling high-performance API delivery and improving backend scalability and response times.
- Engineered a real-time transaction monitoring dashboard using Next.js, Tailwind CSS & Django REST Framework, capable of visualizing transactions, reducing alert response time by 55% & increasing fraud detection accuracy by 40%.
- Developed a real-time fraud detection engine leveraging Python, TensorFlow and machine learning models, which decreased fraudulent transaction rates by 45%.
- Reduced API latency from 250ms to 90ms by integrating GraphQL with Client, resulting in a 60% improvement in data-fetching efficiency across financial services.
- Architected and deployed an event-driven system using Kafka and RabbitMQ, increasing transactional throughput by 40% while enabling reliable, asynchronous message handling in high-volume banking operations.
- Designed and executed end-to-end automated test suites using JUnit 5, REST Assured and TestNG, improving regression defect detection by 40% and enabling faster QA cycles.
- Conducted Behavior-Driven Development (BDD) testing with Cucumber, ensuring seamless validation of business logic and better alignment with stakeholder requirements.
- Ensured full adherence to financial compliance standards including SOC 2, PCI DSS and OWASP Top 10, contributing to successful completion of all quarterly security and vulnerability assessments.
- Built a highly interactive and performant frontend UI using React 18+, TypeScript, Redux and Material UI, reducing page load time by 40% and enhancing user experience across web-based financial applications.
- Integrated WebSockets and STOMP to deliver real-time streaming of stock prices and portfolio movements, providing instant data refresh for trading platforms.
- Reduced deployment cycle time by 50% by configuring automated CI/CD pipelines with Azure DevOps, GitHub Actions and Terraform, ensuring zero-downtime rollouts and enhanced deployment reliability.

Cognizant – India | July 2020 – July 2023
Full Stack Developer

- Automated CI/CD pipelines using Jenkins and GitHub Actions, slashing deployment times by 40% and enabling faster, more reliable release cycles.
- Engineered high-performance database solutions with MySQL and MongoDB, emphasizing data integrity, query optimization and scalable retrieval mechanisms.
- Authored and executed comprehensive unit and integration tests with JUnit and Mockito, maintaining robust code quality and reliability across development phases.
- Deployed a microservices-based ecosystem using Spring Boot, optimizing RESTful APIs and integrating GraphQL to boost data retrieval efficiency by 30%.
- Strengthened application security by implementing Spring Security and OAuth2, achieving a 99% success rate in user authentication while reducing vulnerabilities.
- Developed dynamic, responsive UI components using Angular, HTML5, CSS3 and Bootstrap, delivering intuitive and visually appealing user experiences.
- Upheld rigorous coding standards and industry best practices, fostering maintainable, scalable and high-quality codebases throughout the development lifecycle.
- Utilized Docker for containerizing applications and Kubernetes for orchestrating microservices, enhancing deployment agility and scalability.
- Collaborated with DevOps teams to optimize AWS infrastructure, ensuring high availability and seamless application deployments.
- Implemented Redis-based caching mechanisms to improve application performance and reduce server load by optimizing response times.

EDUCATION:

Master's in Computer science - University of North Texas, Denton, TX, USA
Bachelor of Electronics and Communication Engineering - Sastra Deemed to be University, Tamil Nadu, India

CERTIFICATIONS:

Certified AWS (Associate Developer) – Amazon
Java SE 11 Developer – Oracle **(In progress)**
Certified Azure 500 - Microsoft
Certified Basic Java - Hackerank
Certified Basic / Intermediate /Advanced MYSQL - Hackerank
Certified Basic Python - Hackerank