Nithish Marneni

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PROFESSIONAL SUMMARY

Results-driven Software Developer with 4+ years of experience designing and delivering high-performance, scalable Java microservices and full-stack applications across enterprise environments including PayPal and AT&T. Proficient in Spring Boot, REST APIs, Apache Kafka, and cloud-native architectures on AWS and Azure. Demonstrated expertise in real-time transaction processing, fraud detection systems, and omnichannel messaging platforms handling 1M+ daily API requests. Strong foundation in data structures, algorithms, and design patterns complemented by hands-on experience with React, Angular, and modern DevOps practices. Recognized for academic excellence and impactful contributions to large-scale platform performance.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, SQL, HTML5, CSS3
Backend Development: Spring Boot, Spring Security, Hibernate, REST APIs, Microservices, JWT, JDBC
Frontend Development: React, React Hooks, Angular, Bootstrap, Axios, Context API
Databases & Caching: MySQL, SQL Server, PostgreSQL, MongoDB, DynamoDB, AWS DAX
Cloud & DevOps: AWS (Lambda, API Gateway, DAX), Azure (AKS), Jenkins, Docker, Kubernetes, CI/CD
Messaging & Event Streaming: Apache Kafka, Kafka Streams, RabbitMQ
Testing & QA: JUnit, Mockito, Selenium, TestNG, TDD
Monitoring & Logging: Splunk, Grafana
Development Tools: Git, GitHub, Postman, Maven, JIRA
Methodologies & CS Fundamentals: Agile (Scrum, Kanban), SDLC, DSA, Algorithms, Design Patterns, OOP Principles

PROFESSIONAL EXPERIENCE

Client: **PayPal** ***June 2025 – Present***
Role: **Software Developer**
Responsibilities:

- Designed and implemented scalable Java microservices for fraud detection and prevention, significantly enhancing system efficiency and performance.
- Optimized Java applications for real-time credit card transaction processing through advanced JVM tuning and effective memory management strategies.
- Integrated legacy mainframe systems seamlessly using Java libraries and APIs, ensuring smooth data interchange and compatibility. CI/CD pipelines, ensuring continuous integration and high availability.
- Implemented robust authentication and authorization mechanisms using Spring Security, ensuring secure access to applications and data.
- Monitored and analyzed Java application performance using industry-standard profiling tools, optimizing resource utilization and response times.
- Resolved complex production issues through meticulous debugging, log analysis, and proactive troubleshooting techniques.
- Translated complex business requirements into scalable and efficient Java solutions, aligning technical implementations with strategic project goals.
- Implemented Spring Boot microservices to process the messages into the Kafka cluster setup. Implemented Kafka Stream to retry error topic records, state store for aggregations, and Kafka Consumer Rebalancer to save the offset.
- Utilized Agile methodologies (Scrum, Kanban) to manage the full Java development lifecycle, ensuring iterative improvements and timely project deliveries.
- Designed and implemented RESTful APIs in Java to facilitate seamless data exchange and integration between internal and external systems.
- Developed reusable Java libraries that streamlined development processes and improved overall efficiency across projects.
- Contributed actively to open-source Java projects, leveraging community-driven innovation and best practices to enhance technology stack capabilities.
- Mentored and supported junior developers, fostering a collaborative and knowledge-sharing environment within the team.

Lamar University, Beaumont, TX *Jan 2024 – May 2025*

Role: **Research Assistant**

Project: Vendor Management System – Cloud-Native Microservices

Responsibilities:

- Created responsive UI components with React and Bootstrap integrated with JavaScript, improved vendor experience and cut manual processes by over half.
- Enhanced client-side logic and component state using React Hooks and integrated Axios for efficient API communication with backend services.
- Designed and maintained Spring Boot microservices for inventory and billing modules using Java and Maven, enhanced modular architecture, and reduced development cycles.
- Designed and exposed secure RESTful APIs with Spring Security and JWT authentication to handle real-time vendor transactions and role-based access control.
- Modeled relational vendor schemas using MySQL, implemented custom queries with JDBC and optimized indexing strategies to reduce data access latency.
- Deployed microservices on Azure Kubernetes Service (AKS) using Docker containers orchestrated on Linux-based Kubernetes nodes and validated deployments across Azure and AWS environments.
- Increased unit and integration test coverage using JUnit and Mockito, following Test Driven Development (TDD) best practices.

Client: **AT&T** *July 2021 – July 2023*

Role: **Software Developer**

Project: Omnichannel Conversation Platform

Responsibilities:

- Played a key role in developing AT&T's high-scale messaging system supporting Apple Business Chat, SMS, and web, handling over 1 million daily API requests using Java (Spring Boot), REST APIs, and Kafka, while adhering to full SDLC practices including requirements analysis, design, development, testing, and deployment.
- Built webhooks for real-time messaging across Facebook, Twitter, and Apple Chat and streamed millions of daily messages via Kafka, monitoring performance with Splunk and Grafana dashboards.
- Designed and developed RASA-based AI chatbots to predict customer intent and present dynamic self-service menus, and built React-based agent widgets for context-aware suggestions, saving agents time and thousands of dollars.
- Created a custom internal dashboard tool using Angular, TypeScript, and integrated JavaScript libraries to visualize and trace the life cycle of customer conversations.
- Implemented multi-language UI support for internal web tools using React, React Hooks, and context API, integrating localization features and optimizing component reusability to enhance global user experience across multiple regions.
- Developed 20+ RESTful microservices using Java (Spring Boot, Hibernate), object-oriented programming (OOP) principles, data structures, and algorithms to optimize business logic, including a routing system that connects customers to the nearest available chat experts.
- Optimized PostgreSQL and DynamoDB performance for metadata and session storage, improving chat retrieval speed and accelerating access using AWS DAX.
- Developed unit test suites and end-to-end test cases using JUnit and Mockito, and built automation tests using TestNG, while ensuring CCPA (California Consumer Privacy Act) compliance.
- Delivered zero-downtime cloud deployments using Jenkins, Docker, and AWS Lambda/API Gateway in Agile CI/CD pipelines, actively contributing to Scrum ceremonies including sprint planning, stand-ups, and story grooming.

EDUCATION

Master of Science, Computer Science *July 2023 – May 2025*

Lamar University, Beaumont, TX | GPA: 4.0/4.0

Bachelor of Technology, Electronics & Communication Engineering *Jun 2017 – Jun 2021*

JNTUH, Hyderabad, India | GPA: 9.1/10.0

AWARDS & RECOGNITION

Outstanding Graduate Student Award, Lamar University (2024–2025)

Awarded for exceptional academic performance and research in microservices and cloud computing.

Outstanding Individual Contribution Award (2022–2023)

Recognized for impactful microservice development and improving large-scale messaging platform performance.