

# Nimisha Reddy Aleti

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## SUMMARY

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Experienced Backend Java Developer with 2+ years of expertise in building enterprise-grade applications using strong Java programming skills and deep knowledge of the Spring ecosystem (Spring Boot, Spring Data, Spring Security). Proven track record in designing and developing RESTful APIs, working with GraphQL services, and managing SQL/NoSQL databases including DynamoDB and RDS. Skilled in AWS cloud platforms, Linux systems, networking concepts, operating system fundamentals, and cybersecurity principles. Strong experience in containerization with Docker, Kubernetes orchestration, machine learning integration, embedded development, and building robust CI/CD pipelines. Demonstrated expertise in quality assurance (QA) testing methodologies and infrastructure-as-code using CloudFormation

## EXPERIENCE

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### Virtusa

May 2022 - Aug 2023

#### Java Backend Engineer

- Designed and developed backend MVC applications using strong Java programming skills, Spring Boot, Spring Data, Struts, and J2EE architecture on Linux systems. Implemented complex database operations with SQL and NoSQL databases including DynamoDB integration. Applied networking concepts and operating system fundamentals for optimal performance
- Developed and maintained RESTful APIs and SOAP Web Services, ensuring secure backend integrations with cybersecurity best practices. Worked with GraphQL services for efficient data fetching, implemented AWS Lambda functions for serverless computing, and integrated machine learning models for intelligent data processing and analytics
- Built CI/CD pipelines using Jenkins Pipeline, Docker containerization, and Kubernetes orchestration for automated deployment processes. Applied infrastructure-as-code principles, managed cloud deployments on AWS using services like EKS and Route53, and implemented quality assurance (QA) testing methodologies throughout the development lifecycle
- Contributed 50K+ lines of backend code using Git version control and conducted comprehensive code reviews. Created unit tests with JUnit and Mockito, performed embedded development tasks, and demonstrated strong debugging and problem-solving capabilities across Linux and Windows environments

### Virtusa

Jan 2022 - Apr 2022

#### Junior Java Developer

- Developed backend services for internal applications using Java programming and Spring Boot framework with MySQL database integration on Linux systems. Gained hands-on experience with Spring ecosystem including Spring Data and Spring Security, networking protocols, and operating system fundamentals
- Contributed to backend system development by implementing RESTful API endpoints and testing backend logic with JDBC. Worked with Docker containerization, learned CI/CD pipeline development using Jenkins, and gained experience with AWS cloud platforms, NoSQL databases, cybersecurity principles, and quality assurance (QA) testing. Applied machine learning concepts for data analysis while collaborating with senior developers on backend architecture design. Developed strong problem-solving skills through debugging complex backend issues and system integrations

## PROJECTS

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### Microservices E-Commerce Platform | Java, Spring Boot, Spring Data, GraphQL, DynamoDB

- Developed scalable backend microservices architecture using strong Java programming skills, Spring Boot, and Spring Data on Linux systems. Implemented RESTful APIs and GraphQL services for efficient product catalog, user management, and order processing systems with integrated machine learning recommendation engine
- Utilized AWS cloud platforms including Lambda for serverless functions, DynamoDB for NoSQL data storage, and RDS for relational data. Applied infrastructure-as-code using CloudFormation, implemented cybersecurity best practices, and integrated networking concepts for optimal system performance
- Implemented Docker containerization and Kubernetes orchestration for high-availability deployment on Linux environments. Built comprehensive CI/CD pipelines using Jenkins Pipeline with automated QA testing, debugging, and deployment processes. Applied embedded development principles for IoT device integration

### Real-time Data Processing System | Java, AWS Lambda, DynamoDB, Kubernetes, Jenkins

- Built robust backend system using Java and Spring ecosystem (Spring Boot, Spring Data, Spring Security) for real-time data ingestion and processing on Linux platforms. Designed RESTful APIs and GraphQL endpoints with machine learning models for intelligent data analysis and processing
- Leveraged AWS cloud platforms for event-driven processing with Lambda and DynamoDB for high-performance NoSQL data storage. Implemented EKS for Kubernetes container orchestration, Route53 for DNS management, and applied networking concepts with cybersecurity protocols using CloudFormation automation
- Developed CI/CD pipelines using Jenkins Pipeline and Docker for automated build, test, and deployment workflows. Applied quality assurance (QA) testing methodologies, operating system fundamentals, and strong problem-solving skills to optimize system performance across Linux and embedded environments

## **Enterprise API Gateway** | *Java, Spring Boot, Spring Data, RESTful APIs, AWS, Docker, Kubernetes, Linux, Networking*

- Developed comprehensive API gateway using Java programming and Spring Boot framework with Spring Data for database operations on Linux systems. Implemented RESTful API design patterns and GraphQL integration for flexible data access with embedded networking components
- Integrated AWS cloud platforms including Lambda for request processing, DynamoDB for API metadata storage, and Route53 for load balancing. Applied computer networking principles, cybersecurity measures, and infrastructure-as-code with CloudFormation for automated infrastructure deployment
- Containerized application using Docker and deployed on Kubernetes cluster with EKS on Linux environments. Built robust CI/CD pipeline using Jenkins Pipeline with comprehensive quality assurance (QA) testing, machine learning-based monitoring, debugging, and automated deployment capabilities across embedded and cloud systems

## EDUCATION

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### **University Of Central Missouri**

*Master's in Computer Science*

### **Neil Gogte Institute Of Technology**

*Bachelor Of Engineering*

## TECHNICAL SKILLS

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**Languages:** Java 8.0/7.0/6.0/5.0, Java/J2EE, Kotlin, C, C++, Python, JDBC, Shell Scripts, SQL and PL/SQL

**Operating Systems & Platforms:** Linux, Windows, UNIX, Operating System Fundamentals, System Administration

**Spring Ecosystem:** Spring Boot, Spring Data, Spring MVC, Spring Web Flow, Spring IOC, Spring AOP, Spring Cloud

**J2EE Technologies:** Servlets, JDBC, JSP, EJB, JNDI, Java Security

**API Technologies:** RESTful APIs, GraphQL, SOAP Web Services, API Design, Microservices Architecture

**AWS Services:** Lambda, DynamoDB, RDS, Route53, EKS, S3, CloudFormation, Infrastructure-as-Code, EC2, IAM

**Databases:** SQL Server, MySQL, Oracle, MongoDB, DynamoDB, PostgreSQL, NoSQL, Database Design, Query Optimization

**Networking & Security:** Computer Networking, Network Protocols, Cybersecurity, Network Security, System Security

**Containerization & Orchestration:** Docker, Kubernetes, Container Management, Service Mesh, Pod Management

**Machine Learning & Data Science:** Machine Learning Algorithms, Data Processing, Statistical Analysis, Predictive Modeling

**Embedded Development:** Embedded Systems, Microcontroller Programming, Hardware Integration, IoT Development

**CI/CD & DevOps:** Jenkins, Docker, Git, Maven, Automated Testing, Deployment Automation, Infrastructure Automation

**Quality Assurance & Testing:** QA Methodologies, Unit Testing, Integration Testing, Test Automation, Testing Frameworks

**Mark-up/XML Technologies:** HTML, CSS, JavaScript, ReactJS, Bootstrap, XML, JSON

**Frameworks:** Struts, Hibernate, JUnit, Mockito, SOAP UI, Maven, Gradle

**Web Services & Cloud:** Microservices, AWS (Amazon Web Services), Apache Tomcat, Serverless Architecture

**Developer Tools:** Git, VS Code, Visual Studio, IntelliJ, Eclipse, CloudFormation, Terraform

**Testing & Quality:** JUnit, Mockito, Integration Testing, Unit Testing, TDD, Debugging, Problem-solving