

Niharik Kalpam

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Education & Awards:

Cleveland State University, OH

May 2025

Master of Information System | CGPA: 4.0

Awarded The Monte Ahuja Scholarship Fund for the 2024-2025 academic year for outstanding academic excellence, covering 50% of tuition.

National Institute of Technology Warangal, India

Jun 2019

Bachelor of Technology, Electrical and Electronic Engineering

Skills:

Technical: Java, Python, JavaScript (Node.js), HTML/CSS, Spring Boot, Spring Security, JPA, Hibernate ORM, MySQL, Apache Kafka, ReactJS, MySQL, RESTful APIs, SOAP WS, JMS, JUnit, Mockito, JProfiler, Jenkins, Git, Splunk, ELK stack (Beats, Logstash), Prometheus, Grafana, Jira, Confluence, JSON, XML, YAML.

Development Proficiencies: Object-Oriented Programming (OOP), API Development, Microservices Architecture, Agile Software Development, CI/CD Pipeline Development, Data Modeling, Vendor Integrations, Training Module Development, Test-Driven Development (TDD).

Certifications: [Oracle Certified Associate-Java Programmer](#), [AWS Certified Developer - Associate](#), [Hacker Rank Advanced SQL Certified](#)

Work Experience:

Senior Technical Consultant, WIPRO (Client: WSIB)

Oct 2022 – Aug 2023

- Upgraded GW insurance platform from V7 to V10, resolving dependencies and configuration issues, ensuring compatibility with existing APIs, database schema and underlying infrastructure thereby maintaining application integrity and preventing potential regressions.
- Enhanced system interoperability by 35% through **Redis caching**, parallel processing with Spring's **@Async** and **CompletableFuture**, query optimization with **Spring Data JPA**, and asynchronous processing with **Apache Kafka**, for robust and resilient integration architecture.
- Architected a **CI/CD pipeline** using **Jenkins**, **Git**, and **Docker Hub**, and automated deployments with **Ansible**, reducing deployment time by 20% and enhancing system efficiency and reliability.
- Integrated 20+ messaging plugins with Spring Boot's messaging APIs (Spring **AMQP**, Spring **JMS**) for vendor integration using **@MessageMapping** for incoming messages, and asynchronous processing with message-driven POJOs using **@MessageDriven**.
- Led **code reviews** and resolved bugs, providing design and implementation suggestions, ensuring code quality, and minimizing downtime for project continuity, and managed an **offshore team** of 5 members, handling client-offshore communications and reviewing deliverables.
- Acted as a **Technical Recruiter**, interviewing over 15 candidates, and **trained** 20 new hires on Policy Center 8.0 (Spring Framework), enhancing team capability, performance, and overall expertise.

Technical Consultant, TECHNUMEN (Client: State Auto)

Oct 2021 – Oct 2022

- Implemented advanced log analytics with **Splunk** and **ELK stack** (Beats, Logstash), leveraging log aggregation, filtering, and correlation, and optimizing log ingestion, indexing, and querying, reducing system downtime by 20% through data-driven insights and precise analysis.
- Applied Java 11, **Spring Boot** 2.3, and **JUnit** 5 for backend testing with **Mockito** 3 for mocking, optimizing microservices performance by 15% using **JProfiler** 13, JVM tuning, Java Flight Recorder, garbage collection, and SQL query refactoring, indexing, and connection pooling.
- Crafted 8 advanced training modules for GW insurance platform, integrating **OOP**, **Agile**, and **TDD** principles, enhancing team proficiency and technical excellence in **microservices development**.
- Led business analysis and process re-engineering, providing technical leadership that informed 20 key decisions and enhancing solution alignment with business objectives by 35% through **data modeling**, **system integration**, and **workflow optimization**, collaborating with cross-functional teams to develop technical solutions supporting insurance products and services.

Senior Software Engineer, CAPGEMINI (Client: USAA)

Jul 2019 – Oct 2021

- Spearheaded the development of GW insurance platform using **Java** for backend API, **React** for frontend UI, and **Node.js** for real-time data processing, React hooks for lazy loading, and CDN integration, reducing page load times by 1.5 seconds and increasing user sessions by 12%.
- Engineered 100+ Event-Driven Architecture components, enhancing communication and productivity across microservices by utilizing **@EventListener** for **real-time event handling** and applying event sourcing with **@EventSourcing** for event storage and retrieval.
- Conceived and delivered 80+ **RESTful APIs** to integrate with industry leaders such as Safelite, Copart, and ERAC by implementing **Spring Cloud Gateway** for routing and rate limiting, **OAuth 2.0** for security, and **Prometheus** and **Grafana** for monitoring.
- Authored 100+ pages of **Design Documents** and **API documentation** for Spring Boot RESTful endpoints leveraging **Swagger**, **Spring-fox**, and **Docket API** for documentation and utilizing **@EnableSwagger2** for discovery, crafting docs in **Ascii-Doc** and **Markdown**, and improving API usability and reducing developer onboarding time by 40%.
- Leveraged **Spring Web MVC**, **Spring Data JPA**, and **Hibernate ORM** for efficient database operations, with **YAML** for streamlined service configuration, ensuring high performance, security, and maintainability across all API services.
- Designed and executed integration for 10+ **SOAP APIs** with third-party platforms using Spring Web Services and **JAXB** for XML binding, Apache Camel and Spring Integration for data transformation, and Spring's **@Retryable** and **@CircuitBreaker** for error handling.

Projects:

Real-time Insurance Quote Generation System (Spring Boot, Spring Security, Java, RESTful APIs)

Oct 2023 – Feb 2024

- Conceptualized and developed an Insurance Quote Generation System prototype using Spring Boot to automate real-time quote generation workflows, reducing manual tasks.
- Established role-based access control and JWT token-based authentication with Spring Security, enhancing security protocols and managing access for over 100 simulated users, including admins, agents, and insured users.
- Engineered a comprehensive user management system using Spring Security, Hibernate, and JPA, facilitating seamless role assignment, user profile creation, and ensuring compliance with industry data protection standards.
- Orchestrated the integration of over 10 RESTful APIs using Spring MVC, incorporating Swagger for dynamic API documentation, reducing response times by 15%, and enhancing development efficiency by 25% through improved API usability and developer collaboration.
- Executed unit and integration testing using JUnit, Mockito, and Spring Boot Test within a layered architecture (Controller-Service-Repository), achieving 90% code coverage, ensuring robustness and reliability, and validating integration of application components and services.