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, Electronics and Communications | CGPA: 3.3

Skills:

Technical: Java, Python, JavaScript (Node.js), HTML/CSS, Spring Boot, Spring Cloud Gateway, Spring Data JPA, Hibernate ORM, MySQL, Apache Kafka, Apache Camel, ReactJS, MySQL, RESTful APIs, SOAP WS, JMS, Swagger, 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 Completable-Future, query optimization with Spring Data JPA, and asynchronous processing with Apache Kafka, ensuring a 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 @SendTo for message destinations, @MessageMapping for incoming messages, and asynchronous processing with message-driven POJOs using @MessageDriven.

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.
- Utilized 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.
- Developed 8 advanced training modules for GW insurance platform, integrating OOP, Agile, and TDD principles, significantly enhancing team proficiency and technical excellence in microservices development.
- Led business analysis and process reengineering, 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) **Jun 2019 – Oct 2021**

- Engineered 100+ Event-Driven Architecture components, enhancing communication and productivity across microservices by utilizing @EventListener for real-time event handling and implementing event sourcing with @EventSourcing for event storage and retrieval.
- Authored 100+ pages of API documentation for Spring Boot RESTful endpoints by 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 developer onboarding time by 40%.
- 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%.
- Architected and developed 80+ RESTful APIs by implementing Spring Cloud Gateway for routing and rate limiting, OAuth 2.0 for security, Prometheus and Grafana for monitoring.
- 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 implemented integration for 10+ SOAP APIs with third-party platforms using Spring Web Services and JAXB for XML binding, utilizing Spring Cloud Gateway for API routing and rate limiting, Apache Camel and Spring Integration for data transformation, and Spring's @Retryable and @CircuitBreaker for error handling.

Academic 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.
- Architected 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 extensive 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.