Naveen Kumar Thallapally

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EDUCATION

- **Chicago State University** — Chicago, IL
  Master of Science in Computer Science 3.77/4.0 — *Jan 2020 – May 2021*
  Coursework: Data Structures Algorithms, Database Systems, Data Analytics, Web Development, Cloud Computing
- **Institute of Aeronautical Engineering** — Hyderabad, India
  Bachelor of Technology in Electronics and Communication Engineering — *March 2014 – August 2018*

TECHNICAL SKILLS

- **Programming Languages:** Java, C/C++, Python, SQL, Go, PHP, Kotlin
- **Web Technologies:** JavaScript, Angular, React, HTML5, CSS, XML, JSP, jQuery, JSON, HTTP, Node.js, REST API, GraphQL
- **Frameworks:** Spring MVC, Kafka, Spring Boot, Hibernate, Docker, Kubernetes
- **Cloud Technologies & Databases** AWS, Azure, MySQL, Oracle, DB2, MongoDB, PostgreSQL, SQL Server
- **Tools & Methodologies** GIT, Eclipse, IntelliJ, RStudio, Jenkins, Junit, Agile, Maven, JUnit, Mockito, Postman, Kanban, Swagger, Splunk, Linux, Maven, Gradle

CERTIFICATIONS

- AWS Certified Solution Architect

EXPERIENCE

- **DTCC** — Dallas, TX
  Software Developer — *Feb 2024 - Present*
  - **Led** and implemented highly available and fault-tolerant back-endsystems using Java 11+, Spring Boot, Spring Cloud, and Spring Batch, ensuring strict adherence to the regulations of trade **settlement T+1/T+2**.
  - **Designed** and deployed stateless **RESTful APIs** using **Spring MVC**, and **OAuth2**, enabling real-time data exchange across trading, clearing, and settlement platforms.
  - **Led and Implemented** cloud-native migration of microservices for settlement and risk operations to AWS, utilizing services like EC2 for compute, S3 for immutable audit storage, **RDS (PostgreSQL)** for transactional data persistence, and AWS Lambda for event-driven risk validation
  - Developed REST APIs in Spring Boot with GraphQL to support a large-scale financial system, ensuring low-latency responses and handling over **1 million daily transactions**, improving system throughput by **30%**.

- **Best Western International** — Phoenix, AZ
  Software Developer — *Jan 2023 - Jan 2024*
  - **Led** and implemented cloud-native microservices using Java, Spring Boot, and Spring Cloud, delivering scalable hotel booking solutions with real-time inventory synchronization and dynamic pricing.
  - **Built** reusable UI components in Angular for enabling faster implementation of features like calendar pickers, room selectors, and real-time reviews, which reduced front-end development effort by **30%**.
  - Revamped **CI/CD workflows** by **implementing parallel test execution** and **Docker-based build environments**, reducing deployment time by **30%** and increasing reliability across staging and production.
  - Architected and administered Kubernetes clusters and Docker container orchestration to streamline deployment processes, **achieving a 50% reduction in deployment times** and enhancing system scalability and stability

- **DTCC** — Dallas, TX
  Software Developer — *Aug 2021 - Dec 2022*
  - **Developed RESTful Web APIs** for the policy scoring module in **DTCC's backend system**, leveraging **Spring Boot and Event-Driven Architecture** for optimized data processing and seamless system integration.
  - **Optimized Kafka message consumption** by implementing **batch processing, consumer group partitioning**, and manual offset management, enhancing resilience and improving large-scale event stream processing.
  - Indexed over **200,000 events** in Elasticsearch 6 using Open Distro to enable real-time log analysis and monitoring, improving system observability and reducing issue resolution time by **50%**.
  - Optimized data storage and retrieval by leveraging Spring Data JPA with MySQL, implementing query optimizations, indexing strategies, and Redis caching, improving complex query performance by **30%** for invoice reports and calculations.

- **Modak Analytics** — Hyderabad, India
  Software Developer — *Nov 2018 - Dec 2019*
  - **Built RESTful APIs** for the **Billing Module's backend services** using **Java, Spring Boot, and Spring MVC**, ensuring seamless data processing and integration with external systems.
  - **Implemented secure OAuth 2.0 and JWT-based authentication and authorization**, integrating **Spring Security** to enforce **role-based access control (RBAC)** and secure API endpoints.
  - **Developed and optimized a distributed microservices architecture** using **Spring Cloud (Eureka, API Gateway, Config Server)** for a **high-volume billing system**, improving scalability, resilience, and service discovery.
  - **Designed asynchronous event-driven workflows using RabbitMQ for transactional messaging** and **Kafka for high-throughput event streaming**, ensuring reliable billing transaction processing and real-time event propagation.