Anil Kumar Prathipati

Principal Software Engineer
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Professional Summary

Senior / Principal Software Engineer with **12+ years of experience** designing and delivering scalable, cloud-native applications across government, insurance, and financial domains. **5+ years of hands-on JavaScript and Node.js development** with **4+ years of MongoDB experience**, specializing in **greenfield application development**, **legacy system modernization**, and **code migration to microservices architectures**. Proven expertise in building high-performance REST APIs, event-driven systems using Kafka, and cloud deployments across AWS, Azure, and GCP. Recognized for technical leadership, mentoring engineers, and delivering secure, resilient systems in high-stakes, compliance-driven environments.

Areas of Expertise

- Cloud Platforms: AWS, GCP, Azure
- Programming Languages: Java, JavaScript, Node.js, Python
- Frameworks: Spring Boot, Angular, React
- CI/CD Tools: Jenkins, Maven, Git, Docker
- Databases: Oracle, MongoDB, MySQL, DB2
- Development Approaches: Agile Scrum, Waterfall
- Application Servers: Apache Tomcat, IBM WebSphere, JBoss
- Testing Tools: JUnit, Selenium, TestNG
- Identity Access Management: Azure Active Directory, ForgeRock, OKTA

Projects

State Compensation Insurance Fund(SCIF)
Principal Engineer | California | Jun 2022 – Present

- Led **greenfield development** of cloud-native backend services using **JavaScript (Node.js)** and Java (Spring Boot) for document and claims management platforms.
- Designed and implemented **MongoDB schemas and aggregation pipelines** to support high-volume document indexing and search use cases.
- Built RESTful APIs using **Node.js, Express, and JavaScript**, enabling secure data exchange with internal and third-party systems.
- Migrated legacy monolithic services to **microservices architecture**, including **code migration from older Java-based services to Node.js-based services** where performance and scalability were required.
- Implemented **event-driven workflows using Kafka**, integrating MongoDB-backed consumers and producers.
- Led CI/CD automation for Node.js and Java services using Jenkins, Docker, and AWS EKS.
- Collaborated with frontend teams to support API contracts consumed by Angular and React applications.

Benefits EOB (BCBS)
Sr Software Engineer | CareFirst BCBS | Oct 2019 – Jun 2022

- Developed backend services using **JavaScript (Node.js)** alongside Spring Boot to process high-volume insurance claims.
- Designed and optimized **MongoDB collections** for claim metadata, reducing query latency and improving scalability.
- Participated in **code migration efforts**, modernizing legacy Java services and refactoring APIs to support cloud-native deployment.
- Built new APIs from scratch to support evolving business workflows and external integrations.
- Deployed Node.js and Java services to **AWS and GCP**, supporting containerized workloads.
- Implemented automated testing and CI/CD pipelines for JavaScript and backend services.

TEAM Voter Registration System (TX SOS)
Lead Software Engineer | TX SOS | Aug 2017 - Oct 2019

- Led **new development** of voter registration microservices using **JavaScript-based frontend integrations** and backend APIs.
- Introduced **MongoDB** for caching and fast-access voter lookup services, complementing Oracle databases.
- Migrated voter-related services to **AWS**, including refactoring application code and deployment pipelines.
- Worked closely with UI teams using Angular to support JavaScript-heavy client-side workflows.
- Designed Kafka-based asynchronous processing pipelines for voter data synchronization.

AM I Registered (NH SOS)
Sr Software Engineer | NH SOS | Jan 2016 - Aug 2017

- Developed REST APIs using Spring Boot and **JavaScript-driven Angular frontend applications**.
- Implemented **MongoDB** as the primary persistence layer for voter information services.
- Delivered **new application features** end-to-end, from requirements through production release.
- Refactored and optimized existing codebases to improve performance and maintainability.

Additional Projects
- GA Voter Registration System - Implemented Spring MVC framework.
- NH Voter Registration System - Implemented Spring MVC framework.
- RI Voter Registration System - Implemented Spring MVC framework.
- Meditracker - Implemented Spring MVC framework.
- Trading Analyses with Indicators - Implemented Spring MVC framework and Struts.

Additional Information
- Experienced in working across U.S. government sector projects.
- Strong interpersonal and team collaboration skills.
- Comfortable working in high-stakes, security-sensitive environments.

Education

Bachelor of Technology in Information Technology
Jawaharlal Nehru Technological Institute, 2006 – 2010