

# NAGA VENKATA PRANAY SINGULURI

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## PROFESSIONAL SUMMARY

Results-driven Senior Full Stack Java Developer with 5+ years of experience designing, developing, and maintaining enterprise-grade Java-based applications using Spring Boot, Microservices, and event-driven architectures. Proven expertise in leading production support activities, ensuring system stability, and maintaining high availability for mission-critical applications. Strong command of DevOps principles with hands-on experience implementing CI/CD pipelines, containerization with Docker/Kubernetes, and cloud deployments. Demonstrated leadership in mentoring junior engineers and fostering collaborative team environments. Experienced in modernizing legacy systems, migrating to contemporary architectures, and delivering solutions across manufacturing, construction, and healthcare domains. Exceptional communicator capable of articulating technical concepts to both technical and non-technical stakeholders.

## TECHNICAL SKILLS

Category	Technologies
Core Languages	Java 8/11/17, Python, TypeScript, JavaScript (ES6+)
Frameworks	Spring Boot, Spring Security, Spring Data JPA, React.js, Redux
API Development	RESTful APIs, GraphQL, Microservices Architecture, Swagger/OpenAPI
Event Streaming	Apache Kafka, Pub/Sub, Event-Driven Architecture
Databases	Oracle PL/SQL, MSSQL, PostgreSQL, MongoDB, Cassandra, DynamoDB
Cloud Platforms	AWS (S3, ECS, Lambda, CloudWatch), GCP (Cloud Functions, Pub/Sub)
DevOps & CI/CD	Jenkins, Docker, Kubernetes, OpenShift, Tekton, Git, GitHub Actions
Testing Tools	JUnit, Mockito, TestNG, REST Assured, Postman, Newman, JMeter
Security	OAuth2, JWT, Spring Security, SAST Tools
Build Tools	Maven, Gradle, NPM
Monitoring	CloudWatch, Splunk, ELK Stack
Methodologies	Agile/Scrum, TDD, Code Reviews, Pair Programming

## PROFESSIONAL EXPERIENCE

### GREEN BAY PACKAGING — Arkansas, USA

Senior Full Stack Java Developer | Jul 2024 – Present

*Enterprise supply chain management platform serving 1,000+ users across manufacturing facilities*

- Designed and developed robust Java-based microservices using Spring Boot to support critical supply chain operations, enabling seamless communication between inventory, logistics, and production modules.
- Led production support activities, implementing monitoring dashboards and alerting mechanisms that reduced system downtime by 20% and ensured 99.9% availability for mission-critical services.
- Architected event-driven solutions using Apache Kafka for real-time data streaming, reducing system data latency by 40% and enabling instant supply chain updates across distributed systems.

- Enhanced DevOps capabilities by automating CI/CD pipelines with Jenkins and Docker, reducing deployment time from hours to minutes and enabling bi-weekly sprint releases without downtime.
- Designed secure RESTful APIs with JWT-based authentication and Spring Security, ensuring data integrity and compliance with enterprise security standards.
- Optimized Oracle PL/SQL queries and stored procedures, reducing database query processing time by 35% and improving transactional reporting performance.
- Mentored 4 junior developers on Java best practices, Spring Boot patterns, and debugging techniques, fostering technical growth and improving team code quality.
- Deployed serverless applications on AWS Lambda and ECS, improving cost efficiency for event-triggered data processing tasks.
- Integrated AI/ML pipelines using TensorFlow for predictive logistics forecasting, resulting in 25% reduction in supply chain inefficiencies.
- Collaborated with stakeholders to translate business requirements into technical specifications, delivering innovative application enhancements aligned with business objectives.
- Conducted code reviews enforcing SOLID principles, design patterns, and coding standards to maintain high-quality, maintainable codebases.

**Technologies:** Java 11, Spring Boot, Spring Security, Apache Kafka, Oracle PL/SQL, REST APIs, AWS (Lambda, ECS, S3, CloudWatch), Docker, Jenkins, React.js, TypeScript, JUnit, Mockito

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## MASTEC — Philadelphia, USA

**Full Stack Java Developer | Jan 2023 – Jun 2024**

*Construction project management platform supporting 1,000+ field crews and project managers*

- Developed microservice-based backend systems using Spring Boot, enabling high scalability and seamless API integrations for construction workflow management.
- Led production support for critical project management systems, managing incident resolution and ensuring 99.5% system uptime during peak construction seasons.
- Implemented event-driven architecture with Apache Kafka for real-time communication between construction task modules, improving data synchronization by 30%.
- Drove CI/CD automation using Jenkins and Docker, deploying containerized builds to AWS ECS environments with zero-downtime deployments.
- Designed and optimized complex SQL queries and stored procedures in MSSQL, reducing data retrieval time for project reports by 30%.
- Built secure authentication layers using JWT tokens and OAuth2, enabling seamless and secure client communication across project portals.
- Developed RESTful APIs with Swagger documentation, standardizing third-party integrations and improving developer onboarding time.
- Created React.js dashboards with TypeScript to streamline construction workflows, improving real-time collaboration by 25%.
- Optimized API performance through payload optimization and caching strategies, reducing loading times by 15%.
- Collaborated with QA engineers to establish end-to-end testing strategies using JUnit, Mockito, and REST Assured within Agile development cycles.
- Mentored junior engineers on microservices patterns, API design, and debugging distributed systems.

**Technologies:** Java 11, Spring Boot, Spring Data JPA, Apache Kafka, MSSQL, REST APIs, AWS ECS, Docker, Jenkins, React.js, TypeScript, JUnit, Mockito, Swagger

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## CAPGEMINI (Client: Hillrom Healthcare) — Bangalore, India

**Java Full Stack Developer** | Jan 2020 – Aug 2022

*HIPAA-compliant healthcare management system supporting 10,000+ concurrent users*

- Developed enterprise Java applications using Spring Boot for hospital management systems, ensuring HIPAA compliance and supporting 10,000+ concurrent users.
- Led production support efforts including incident management, root cause analysis, and crisis recovery, ensuring high availability for patient-critical systems.
- Refactored legacy backend systems using Spring Boot microservices, reducing API latency by 20% and improving system maintainability.
- Implemented secure API gateways using Spring Security, automating token validation and ensuring healthcare data compliance.
- Designed and optimized Oracle PL/SQL databases for patient health records, improving query performance and enabling predictive analytics integration.
- Modernized legacy search systems by implementing Lucidworks Fusion with NLP models, improving search query relevance by 30%.
- Architected REST-based interfaces for securely connecting third-party diagnostic systems and external healthcare providers.
- Deployed distributed applications on AWS using serverless functions and batch job processing connected to healthcare notification queues.
- Handled crisis recovery scenarios including rollback procedures for database synchronization and ElasticSearch indexing failures.
- Mentored team members on Python-based AI/ML approaches and microservice-ready configurations, delivering unit testing methodology sessions.
- Executed performance testing using JMeter to identify and resolve login bottlenecks for global web clients.

**Technologies:** Java 8, Spring Boot, Spring Security, Oracle PL/SQL, MongoDB, REST APIs, AWS (S3, Lambda), Docker, Jenkins, React.js, Lucidworks Fusion, JUnit, JMeter

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## EDUCATION

**Missouri University of Science and Technology** — Missouri, USA *Master of Science, Information Science* | Aug 2022 – May 2024

**Vishnu Institute of Technology** — Andhra Pradesh, India *Bachelor of Technology, Electronics and Communication Engineering* | Jun 2016 – Jul 2020