# Jaya Naga Prakash Thota

#### **PROFILE**

- Full Stack Java Developer with 6+ years of experience in building and optimizing high-performance, scalable web applications and microservices, leveraging technologies like Java, Spring Boot, React.js, Node.js, Kafka, Redis, Elasticsearch, and AWS to enhance system architecture, real-time data processing, and cloud deployment.
- Expertise in API development, database optimization, and fault-tolerant architectures, with a strong focus on implementing CI/CD pipelines using Jenkins, GitHub Actions, and Docker, as well as integrating machine learning models for advanced data analytics and business intelligence in Agile environments.

# SKILLS

Programming Languages: Java, JavaScript, TypeScript, HTML, CSS, SQL, Python, Scala, Spark

Frameworks & Libraries: Spring Boot, Hibernate JPA, React, Redux, Node.js, Express.js, Bootstrap, Sass, Mockito, JUnit, Microservices, J2EE, Pandas, NumPy, Scikit-Learn, XGBoost, Resilience4j

Databases: AWS ElasticSearch, AWS Redis, Oracle DB, MongoDB, PL/SQL

Development Tools: Splunk, Apache Kafka, Git (Bitbucket, GitHub), SonarQube, Kibana UI, Postman, Eclipse, IntelliJ, Visual Studio, Webpack, Grunt, Maven, Log4J, Jupyter Notebook

Agile & Project Management: Jira, Confluence, Agile (Scrum, Kanban), Sprint Planning, Product Roadmap Planning

Cloud & DevOps: AWS (EC2, S3, IAM, CloudWatch), Docker, Kubernetes, CI/CD (Jenkins, GitHub Actions, Bitbucket Pipelines), Secure Socket Shell (SSH), PuTTY

# PROFESSIONAL EXPERIENCE

**USAA**, Full Stack Software Engineer Intern

08/2024 - present | San Antonio, TX, United States

- Developed and maintained full-stack web applications using Java, Spring Boot, Hibernate, and React.js, ensuring high performance, scalability, and security.
- Participated in an Agile-Scrum environment, collaborating with cross-functional teams to deliver high-quality software in monthly iterations, conducting sprint planning, retrospectives, and daily stand-ups to track project progress.
- · Designed and implemented Service-Oriented Architecture (SOA) by developing SOAP-based and RESTful web services using Spring Boot, XML, and WSDL, enabling seamless communication between applications.
- · Built responsive and dynamic user interfaces using React.js, Bootstrap, and Sass, ensuring a seamless user experience across various devices. Utilized Redux for state management and improved front-end performance through lazy loading and code splitting.
- Followed Test-Driven Development (TDD) practices by implementing JUnit and Mockito test cases, improving code reliability and reducing bugs
- Used Spring IOC (Inversion of Control) for managing dependencies and performing dependency injection, leading to a more modular and maintainable application architecture.
- Implemented Spring ORM with Hibernate to handle database operations, creating entity domain objects, DAOs, and repositories to facilitate efficient data access and management.
- · Developed and deployed microservices to communicate using HTTP and REST protocols, implementing circuit breaker patterns using Resilience4i for fault tolerance.
- Configured Continuous Integration/Continuous Deployment (CI/CD) pipelines using Jenkins, Git, and Docker, automating build and deployment processes for improved efficiency and reliability.
- Established Secure Socket Shell (SSH) encryption using PuTTY to manage remote file access and secure connections in server environments.
- Worked with MongoDB and Oracle, optimizing SQL queries, stored procedures, and indexing strategies to enhance database performance and
- Integrated Log4] for logging and monitoring application performance, enabling faster debugging and issue resolution.
- Deployed applications on AWS, managing EC2 instances, S3 storage, IAM roles, and CloudWatch monitoring, ensuring high availability and
- Managed and resolved JIRA tickets, tracking project progress and ensuring timely completion of assigned tasks.
- Worked closely with business analysts and UX designers to gather requirements and translate them into technical solutions that meet business

### ADP Private Limited, Member Technical

11/2021 - 07/2023 | India

- Designed and implemented high-performance APIs in Java, utilizing Elasticsearch as the primary database, optimizing Oracle DB calls by 40%, and enhancing operational efficiency. Integrated Apache Kafka for real-time updates and leveraged Git for version control, streamlining **deployment** and **collaboration**.
- Optimized API performance using Dynatrace and reusable functions, boosting efficiency by 20%, while ensuring 99% uptime through proactive issue resolution.
- · Migrated data pipelines from Oracle DB to Elasticsearch, optimizing storage and caching by using DynamoDB for frequently accessed metadata and Redis Cache for 30% faster responses. Built Splunk dashboards to enhance monitoring, cutting issue resolution time by 40%.
- Deployed APIs in a scalable and reliable environment while implementing secure authentication and access controls for resource permissions.
- Implemented a robust Kafka event processing failure handling mechanism using dead-letter queues (DLQ) and exponential backoff retries, ensuring 99.9% message processing reliability and minimizing data loss.
- Developed and automated API test suites using RestAssured and Postman, ensuring robust API validation and reducing manual testing efforts by
- Enhanced API performance by resolving bottlenecks, leading to a 10% improvement in response times. Actively contributed to Agile/SCRUM and maintained 100% traceability of technical documentation.
- · Documented and maintained all technical aspects of the project, ensuring 100% traceability of code changes, design decisions, and AWS infrastructure configurations for future reference.

• Collaborated with cross-functional teams to design and implement cloud-based microservices architectures, ensuring seamless integration, scalability, and enhanced system reliability, resulting in improved system throughput by 25%.

#### **Infec Private Limited,** Software Developer

06/2020 - 11/2021 | India

- · Designed & developed RESTful APIs using Java, Spring Boot, optimizing integration, performance, and SQL queries for efficient data retrieval.
- Implemented robust POST APIs for UI-triggered changes, ensuring seamless data flow, efficient front-end integration validation and
- enhanced system performance.
- Developed and enhanced UI components using react improving user experience and ensuring seamless integration with RESTful APIs for dynamic data rendering.
- Experienced in unit testing with JUnit, maintaining code quality through refactoring and efficient Java codebase management, while using Kubernetes, Git, Jenkins, and Maven to streamline and automate software delivery.
- Contributed to Agile/SCRUM, participating in standups, sprint planning, retrospectives, and quarterly planning for timely delivery and project
  alignment.
- Collaborated with the manager, PO, and architect for new requirements and code reviews before moving to testing, ensuring that everything was functioning properly and developed for testing
- Created Splunk dashboards and set up alerts for all environments, from DIT to PROD, to monitor system performance and detect anomalies in real-time, ensuring proactive issue resolution and system reliability.

# AbhiBus Services India Private Limited, Software Developer Intern

12/2018 - 05/2019 | india

- Developed Python application with React.js front-end, utilizing HTML and CSS for responsive and visually appealing web pages,
- enabling competitor data extraction and comparative analysis.
- Engineered a high-performing machine learning algorithm in Python with a 90.4% accuracy rate for predictive analysis, seamlessly integrating it into the React.js front-end for real-time data prediction and display.
- Conducted factor analysis using Python and integrated the results into the React.js user interface, providing intuiti data visualization
- components for effective interpretation and strategic insights.

# **EDUCATION**

Master of Science in Mathematics and Computer Science,

08/2023 - 12/2024 | United States

The University of Texas at Arlington

Bachelors, Computer Science and Engineering,, Sri Chundi Ranganayakulu Enginnering College 06/2015 - 05/2019 | India