# SAI CHARAN

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## PROFESSIONAL SUMMARY

- Java Full Stack Developer with 4+ years of experience delivering enterprise-grade applications using Java (17/11/8), Spring Boot, and React.js across domains like Banking, Healthcare, and Automotive.
- Specialized in building and securing RESTful APIs with Spring Security, OAuth2, and JWT, and designing microservices architectures with Spring Cloud to enable scalable, fault-tolerant systems.
- Proficient in deploying containerized applications using Docker and Kubernetes (EKS), automating CI/CD workflows via Jenkins, GitHub Actions, and Terraform for seamless multi-environment rollouts.
- Adept in event-driven systems using Apache Kafka and RabbitMQ, cloud-native development on AWS (EC2, RDS, Lambda, S3), and performance optimization using Redis, JPA, and PostgreSQL.
- Strong advocate of Agile, DevOps, and TDD practices with expertise in monitoring (Grafana, Prometheus), version control (Git, Bitbucket), and API documentation (Swagger/OpenAPI) to deliver high-quality software.

## TECHNICAL SKILLS

- **Languages:** Java (17/11/8), JavaScript, TypeScript, Python
- **Frontend Technologies:** React.js, Angular (v5-v17), HTML5, CSS3, Bootstrap, SASS, Tailwind CSS, jQuery
- **Backend & Frameworks:** Spring Boot, Spring MVC, Spring Security, Spring Cloud, Spring Data JPA, Hibernate, JPA, Servlets, JSP
- **API Development:** RESTful APIs, OpenAPI (Swagger), GraphQL, JAX-RS, OAuth2, JWT
- **Databases:** PostgreSQL, MySQL, MongoDB, Oracle 12c, DynamoDB
- **Cloud & DevOps:** AWS (Lambda, EC2, S3, RDS, CloudWatch, API Gateway, SNS, SQS), Docker, Kubernetes (EKS), Terraform, Jenkins, Git, Maven, Gradle, Bitbucket, AWS CloudFormation
- **Messaging & Event Streaming:** Apache Kafka, RabbitMQ, AWS SNS/SQS
- **Caching & Performance:** Redis, Ehcache, CDN integration (CloudFront)
- **Testing & Quality Assurance:** JUnit 5, Mockito, TestNG, Postman, REST Assured, JMeter, Mocha, Karma
- **Monitoring & Logging:** ELK Stack, Prometheus, Grafana, Log4j2, AWS CloudWatch
- **Development Tools:** IntelliJ IDEA, Spring Tool Suite, Visual Studio Code, Jira, Confluence, Swagger Hub, GitHub, GitLab

## PROFESSIONAL EXPERIENCE

**Java Full Stack Developer | Feb 2024 - Present**
**JPMorgan Chase & Co - Dallas, TX**

- Rebuilt credit card processing services using Java 17 and Spring Boot to replace legacy systems, boosting transaction reliability and reducing batch-processing delays by 30%.
- Designed and rolled out secure RESTful APIs documented with OpenAPI, enforcing OAuth2 and JWT protocols to maintain regulatory compliance and ensure safe external access.
- Automated task orchestration by integrating Workfront APIs into backend microservices, reducing manual coordination and enabling real-time project tracking across departments.
- Introduced Kafka-based streaming architecture for fraud and payment data, which increased alert generation speed and helped reduce fraud response time by over 35%.
- Refactored monolithic Java services into modular Spring Cloud-based components, which improved code maintainability and cut onboarding time for new developers by 40%.
- Delivered front-end React dashboards that provided operations teams with real-time visibility and manual override capability, enhancing control over transaction anomalies.
- Deployed microservices using Docker containers on EKS, establishing auto-scaling pipelines that supported a 20% increase in daily API traffic with no downtime.
- Streamlined CI/CD workflows through Jenkins and GitHub Actions, accelerating deployments and shrinking production release windows from 6 hours to just under 1 hour.

**Java Full Stack Developer | Jul 2020 - Jun 2022**
**Oak Street Health - Remote, India**

- Delivered patient-facing intake and records modules using Java 11 and React.js, reducing appointment setup delays by 35% and boosting real-time access to clinical data.
- Established secure login and role-based access control using Spring Security with OAuth2 and JWT, ensuring HIPAA compliance and seamless PHI access across apps.
- Shifted infrastructure to AWS (EC2, RDS, S3, Lambda), which enabled scalable deployments and brought down hosting costs by 60% within the first year.
- Enabled asynchronous workflows by integrating Kafka, allowing lab result notifications and appointment alerts to process in real-time and cut response delays by 22%.

- Boosted application speed by configuring Redis caching for frequent queries and optimizing Spring Data JPA operations, which improved UI load times by 40%.
- Led Terraform-based IaC initiatives, streamlining provisioning across environments and enabling traceable, version-controlled infrastructure rollouts.
- Standardized container builds with Docker and managed deployments using Kubernetes, which supported high-availability operations during peak clinical hours.
- Simulated peak load traffic using JMeter and Postman to validate API performance, maintaining sub-500ms latency even under concurrent session spikes.

**Java Developer | May 2019 - Jun 2020**
**Harman** - **Bangalore, India**

- Engineered RESTful microservices using Java 8, Spring Boot, and Hibernate to support telematics features, which improved backend performance by 35% in connected car systems.
- Transformed the UI layer using Angular 5 and Bootstrap, enabling dynamic single-page applications that reduced user interaction delays across infotainment platforms.
- Built diagnostic dashboards powered by RabbitMQ for streaming vehicle telemetry data, enhancing issue detection efficiency during real-time analysis by over 30%.
- Refactored legacy PL/SQL logic into optimized Oracle 12c procedures, improving reporting speed by 50% and reducing database load during high-traffic periods.
- Created clear API documentation with Swagger and aligned integration protocols, resulting in a 25% drop in frontend-backend sync errors during development cycles.
- Led Git version control practices with structured branching in Bitbucket, which reduced integration issues and allowed parallel development with fewer conflicts.
- Automated CI/CD pipelines using Jenkins and Docker to accelerate build-test-deploy workflows, cutting deployment time from 8 hours to under 3 hours.
- Strengthened application resilience by implementing unit and integration tests with JUnit, Mockito, and Karma, increasing test coverage to over 90%.

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**PROJECTS**

**AI-Powered API Monitoring Platform**

- Engineered a Spring Boot microservice integrated with Kafka to stream REST API logs and flag anomalies using ML models built in Python with Scikit-learn.
- Deployed the containerized monitoring system on AWS ECS, achieving real-time alerts with latency under one second.
- Integrated Prometheus and Grafana to visualize API metrics including response time, error rates, and throughput across services.

**Enterprise-Level Job Scheduler with AWS Step Functions**

- Developed a distributed scheduler using Spring Boot, SQS, and Step Functions to manage and retry jobs with transactional audit tracking in DynamoDB.
- Achieved 98% uptime for batch workflows with fine-grained control over failure recovery and state transitions.
- Created a React.js dashboard to trigger workflows, visualize execution paths, and monitor step status in real time.

***Medical Claims Management System***

- Architected Spring Cloud-based microservices in Java 11 to streamline medical claim submission, validation, and audit across modular services.
- Leveraged PostgreSQL, Redis caching, and Kafka messaging to improve processing speed and system resilience under concurrent traffic.
- Set up CI/CD pipelines using Jenkins and GitOps, integrating unit, integration, and load tests to maintain release stability.

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**EDUCATION**

**Master of Science in Computer Science**
University of Central Missouri - Dec 2023

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**CERTIFICATIONS**

- AWS Certified Developer - Associate - **Amazon Web Services**
- Spring Framework for Java Developers - **LinkedIn Learning**
- Java Multithreading, Concurrency & Performance Optimization - **Udemy**
- Architecting with Google Kubernetes Engine - **Coursera**
- Modern React with Redux - **Udemy**
- Building Scalable Java Microservices with Spring Boot and Spring Cloud - **Coursera**