Sainikhil Reddy Pannala
pannalasainikhilreddy@gmail.com
+13134443187

Professional Summary:

- **7+ years of progressive experience in software developmen**t with a strong foundation in **Java, Spring Boot**, and modern front-end frameworks like **ReactJS and Redux**.
- Expertise in designing and building scalable, microservice-based enterprise applications using **Spring Cloud, Spring Security, and RESTful APIs.**
- Proficient in developing reusable and responsive front-end components with ReactJS, incorporating Redux Toolkit, React Router, and Material-UI for seamless user experiences.
- Extensive experience working with relational and NoSQL databases, including **PostgreSQL, Oracle, MySQL, and MongoDB**, optimizing query performance and schema design.
- Solid understanding of secure application development practices, including **OAuth2.0, JWT**, and role-based access controls to ensure data integrity and compliance.
- Skilled in integrating messaging systems such as **Apache Kafka and JMS** for asynchronous, real-time data exchange between distributed services.
- Strong hands-on experience with **CI/CD tools like Jenkins and GitLab CI/CD** for automating builds, testing pipelines, and deployments.
- Proficient in containerization and orchestration using **Docker and Kubernetes** (Amazon EKS), including writing Helm charts for production deployments.
- Implemented monitoring and logging systems using **ELK Stack** (Elasticsearch, Logstash, Kibana), Prometheus, and **Grafana** to ensure system reliability and observability.
- Demonstrated ability to work across the full development lifecycle, including requirement analysis, design, development, unit testing, code review, and production support.
- Contributed to Agile teams by participating in daily stand-ups, sprint planning, retrospectives, and delivering user stories on time with quality.
- Hands-on in writing and maintaining unit and integration tests using JUnit, Mockito, REST-assured, and **Selenium** for full test coverage and regression prevention.
- Worked with cloud platforms including **AWS** (EC2, S3, Lambda, RDS, CloudWatch) for application deployment, monitoring, and scaling.
- Experience in integrating third-party APIs and tools for external services like payment gateways, health plan data, and external eligibility checks.
- Recognized for collaboration with cross-functional teams including product owners, **architects, DevOps, QA**, and stakeholders to align technical solutions with business goals.

Technical Skills

Methodologies	Software Development Life Cycle (SDLC), Agile (Scrum), Test-Driven

	Development (TDD)
Programming Languages	Java, JavaScript, SQL, HTML5, CSS3,Python
Frontend Technologies	ReactJS, Redux, Bootstrap, AJAX, JSP, HTML5, CSS3
Backend Technologies	Java, Spring Boot, Spring MVC, Spring Security, Hibernate (JPA), RESTful APIs, GraphQL, Microservices
Messaging and Streaming Systems	Apache Kafka, JMS, SQS
Database Technologies	PostgreSQL, Oracle, MySQL, MongoDB
Cloud Technologies	AWS (EC2, S3, RDS, Lambda, CloudWatch, API Gateway), Amazon EKS
Containerization and Orchestration. CI/CD	Docker, Kubernetes, Helm, Jenkins, GitHub Actions, GitLab CI/CD
Version Control Tools	Git, GitHub, GitLab, Bitbucket
APIDocumentation and Testing Tools	Swagger/OpenAPI, Postman, REST-assured, JUnit 5, Mockito, Selenium, Cucumber
Code Quality and Monitoring	SonarQube, ELK Stack (Elasticsearch, Logstash, Kibana), Prometheus, Grafana, Log4J
Securityand Authentication	OAuth2.0, JSON Web Tokens (JWT), Spring Security, HTTPS
Development Tools and IDEs	IntelliJ IDEA, Eclipse, Visual Studio Code, Spring Tool Suite (STS), Postman, Git Bash
Design Patterns and Architectural Styles	MVC, Microservices, Serverless Architecture, DAO, Singleton, Factory
Web Services	RESTful APIs, GraphQL, SOAP, API Gateway, Swagger/OpenAPI
Other	Agile Documentation (JIRA, Confluence), SDLC, DevOps Collaboration, CI/CD Automation, Unit & Integration Testing

Professional Experience:

Client: Centene Corporation   **Nov 2024 – Present**
Role: Java Full Stack Developer
Responsibilities:

- Designed and implemented end-to-end web applications using Java 17, **Spring Boot 3**, and **ReactJS** for enterprise healthcare systems.
- Built scalable microservices architecture using **Spring Cloud, Eureka, and Zuul API** Gateway to support modular service development.
- Developed responsive UI components using ReactJS with Redux Toolkit for state management and React Router for seamless navigation.

- Integrated Spring Security with **OAuth2.0 and JWT** tokens to enforce secure authentication and role-based access control.
- Utilized Hibernate **ORM and JPA** for seamless interaction with Oracle and PostgreSQL databases.
- Created and optimized stored procedures, views, and complex SQL queries for data transformation and retrieval in PostgreSQL.
- Developed Kafka producers and consumers for real-time data processing across insurance claims, policy updates, and member eligibility.
- Used Docker for containerizing microservices and deployed them using Kubernetes on Amazon EKS.
- Implemented CI/CD pipelines using Jenkins, GitHub Actions, and Helm charts to automate build, testing, and deployment workflows.
- Leveraged AWS services including EC2, S3, RDS, CloudWatch, and Lambda for hosting, monitoring, and serverless computing.
- Applied TDD practices with JUnit 5 and Mockito, writing unit and integration test suites to ensure robust code quality.
- Used **Swagger/OpenAPI** for API documentation and Postman for manual API testing and mocking.
- Developed dashboards with Grafana and set up Prometheus for real-time monitoring of application health and usage.
- Participated in Agile Scrum rituals including backlog grooming, sprint planning, and retrospectives to drive incremental delivery.
- Collaborated with cross-functional teams including architects, QA, and DevOps to align development with enterprise goals and compliance standards.

Client: Blue Cross Blue Shield(BCBS)   **Aug 2023 – Oct 2024**
Role: Java Full Stack Developer
Responsibilities:
- Engineered and maintained scalable, high-performance full-stack healthcare applications using **Java 11**, Spring Boot, ReactJS, and Redux.
- Designed and developed secure, **RESTful and GraphQL** APIs for claims processing, member eligibility, and provider search functionalities.
- Implemented OAuth2.0 and JWT for securing APIs, ensuring compliance with HIPAA regulations and enterprise-level data protection standards.
- Built modular ReactJS components using functional programming with hooks (useState, useEffect, useContext) and integrated Material-UI for clean, responsive UIs.
- Used **Apache Kafka** for asynchronous messaging across distributed microservices to ensure real-time updates and data integrity.
- Developed PostgreSQL database schemas, optimized complex joins and indexing for high-volume data retrieval.
- Integrated MongoDB for document-based storage of provider network metadata and claim attachments.
- Set up CI/CD pipelines using Jenkins, GitLab CI/CD, and Docker to streamline builds, testing, and deployment across multiple cloud environments.
- Leveraged Kubernetes and Helm for orchestration and deployment of containerized microservices across dev, QA, and production clusters.
- Configured monitoring and logging using ELK stack (Elasticsearch, Logstash, Kibana), Prometheus, and Grafana for proactive performance tracking.
- Created and executed unit and integration tests using JUnit 5, Mockito, and REST-assured for API contract validation and regression coverage.
- Worked closely with QA teams using **Selenium and Cucumber** to automate end-to-end UI and functional testing.
- Participated in Agile Scrum ceremonies including sprint planning, backlog refinement, daily stand-ups, and retrospectives to ensure alignment with business priorities.
- Used Confluence and JIRA for collaborative documentation and tracking project progress.
- Maintained Swagger/OpenAPI documentation for external and internal API consumers to ensure transparency and reusability.

- Integrated third-party APIs and services including eligibility verification, pharmacy networks, and health plan benefits

Client: Panasonic Automotive   **Dec 2021 – July 2023**
Role: Java Full Stack Developer
Responsibilities:
- Developed enterprise-grade web applications for connected vehicle and infotainment systems using Java (Spring Boot) for backend and ReactJS with Redux for frontend.
- Created and consumed RESTful and GraphQL APIs to enable seamless communication between microservices and third-party automotive platforms.
- Engineered reusable, responsive UI components using React, Material-UI, Bootstrap, and SCSS, ensuring mobile-friendly dashboards.
- Designed and implemented microservice architectures using Spring Cloud and Netflix OSS components like Eureka, Zuul, and Ribbon.
- Implemented JWT-based authentication, role-based authorization, and OAuth2 integration for secure user access.
- Built asynchronous processing modules using Kafka and RabbitMQ to handle large volumes of telemetry and diagnostics data from vehicles.
- Managed cloud deployment using AWS (EC2, S3, Lambda, API Gateway, CloudWatch) and containerization with Docker and Kubernetes.
- Worked on CI/CD pipelines using Jenkins, GitLab CI, and SonarQube for code quality, automated testing, and continuous deployment.
- Integrated backend with MySQL and MongoDB, used Hibernate/JPA for ORM, and optimized query performance.
- Conducted unit testing using JUnit, Mockito, and frontend testing with Jest and React Testing Library.
- Monitored application health and logs using Splunk, ELK Stack (Elasticsearch, Logstash, Kibana), and Prometheus + Grafana.
- Participated in Agile ceremonies including daily standups, sprint planning, and retrospectives using JIRA and Confluence.
- Collaborated with cross-functional teams (QA, DevOps, Architects) and followed DevSecOps best practices.
- Migrated legacy modules from AngularJS to modern ReactJS components with improved performance and modular structure.
- Contributed to architectural decisions, code reviews, and mentored junior developers on best practices and coding standards.

Client: EPAM Systems   **June 2020 – Nov 2021**
Role: Software Engineer
Responsibilities:
- Developed and maintained robust backend modules using Java, Spring MVC, and **Hibernate**, contributing to scalable enterprise applications.
- Designed and implemented RESTful APIs for seamless communication between distributed services and client applications.
- Integrated and consumed third-party APIs, including authentication, payment gateways, and reporting services, enhancing system functionality.
- Optimized and wrote complex stored procedures, functions, and triggers in MySQL to support high-volume business operations.
- Applied design patterns such **as DAO, Singleton**, and Factory for clean and maintainable code architecture.
- Collaborated with frontend teams to define API contracts and troubleshoot integration issues, ensuring seamless **UI/UX experience**.

- Participated in Agile ceremonies including sprint planning, retrospectives, and daily stand-ups to ensure alignment and on-time delivery.
- Conducted unit and integration testing using JUnit and Mockito, ensuring the reliability of business-critical services.
- Implemented logging and monitoring mechanisms using **Log4j and ELK** Stack for enhanced visibility and issue resolution in production.
- Managed source code and collaborative development using Git and GitLab, following branching strategies like GitFlow.
- Assisted in performance tuning and refactoring of legacy modules, reducing API response time and enhancing system stability.

Client: EPAM Systems   **Jan 2019 – May 2020**
Role: Software Engineer Intern
Responsibilities:
- Assisted in the development of enterprise-level Java applications using **Spring Boot** and **Hibernate** for backend functionality.
- Contributed to building **RESTful APIs** and integrating them with frontend modules to support business requirements.
- Wrote and maintained **DAO classes** and service layers for efficient interaction with **MySQL/PostgreSQL** databases.
- Participated in debugging and resolving defects reported during QA and UAT phases to ensure product quality.
- Implemented unit tests using JUnit and Mockito to validate service layer logic and ensure high code coverage.
- Supported senior developers in conducting code reviews and applied suggested improvements to enhance code maintainability.
- Utilized Git for version control and participated in code merge and conflict resolution in collaborative projects.
- Involved in documentation of technical tasks, feature specifications, and sprint progress for team alignment.
- Assisted in the integration of third-party APIs and external systems to extend platform capabilities.
- Took part in daily **Agile** stand-ups and sprint retrospectives to share updates and learn team collaboration practices.
- Collaborated in the optimization of SQL queries and database indexing to improve application performance.

Client: Sears Holdings
Role: Software Engineer Intern   **June 2018 – Dec 2018**
Responsibilities:
- Supported front-end development using **JavaScript, HTML, and CSS** to create interactive and responsive user interfaces.
- Assisted in building backend components using Java and Spring MVC, contributing to a modular and scalable architecture.
- Collaborated with senior developers to understand the complete software development lifecycle from requirement gathering to deployment.
- Participated in writing and debugging unit test cases using JUnit, ensuring code reliability.
- Contributed to UI testing efforts, verifying alignment with design specifications and enhancing user experience.
- Gained hands-on experience with version control tools like Git for managing code repositories and collaborating in a team environment.
- Worked on integrating RESTful web services into front-end applications for dynamic content loading.
- Analyzed and fixed bugs reported by the QA team during testing cycles, improving application stability.
- Involved in daily stand-up meetings and sprint planning as part of Agile development practices.
- Documented workflows, user stories, and test cases to support future development and knowledge sharing.

Certifications:

- Certified Pega System Architect(CSA)
- Certified Pega Senior System Architect(CSSA)

Education:

Master of Science, Information Systems |Central Michigan University, USA
Bachelors in Technology, Information Technology | Institute of Aeronautical Engineering, India