

Sri Sai Sumanth Duggina

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Summary

Experienced Java Developer with 2+ years in backend and frontend development. Skilled in Spring Boot, React.js, PostgreSQL, and AWS. Expertise in microservices, RESTful APIs, database optimization, and security protocols like OAuth 2.0 and JWT. Familiar with Agile methodologies, CI/CD, and cloud deployments. Passionate about continuous learning and delivering high-quality software solutions.

Technical Skills

- Languages & Frameworks:** Java, Spring Boot, Spring Data JPA, Spring MVC, Hibernate, React.js, Redux, GraphQL, WebSocket, Material-UI, JavaScript, HTML5, CSS3
- Databases:** PostgreSQL, MongoDB, MySQL, Redis
- Cloud & Deployment:** AWS, Elastic Beanstalk, RDS, Azure DevOps, AKS, Docker
- DevOps & CI/CD:** Jenkins, GitLab CI, Maven, Docker, Kubernetes, Azure Load Balancer
- Security:** OAuth 2.0, JWT, AES-256 encryption, Role-Based Access Control (RBAC), 2FA, GDPR compliance
- Testing & Tools:** JUnit, Mockito, Selenium, JUnit 5, Git, A/B Testing
- Others:** Agile Methodologies, RESTful API, SWIFT Messaging
- Certifications:** AWS Certified Solutions Architect – Associate (**Credential ID:** 0d0e5a84c82342dccb9683614d8f05ce
Issue date: 03/2025, **Expire:** 03/2028)

Professional Experience

Software Engineer, HSBC

01/2024 – Present | Remote, USA

- Worked on the Payment and Trade Information Management System, collaborating with cross-functional teams to gather requirements and implement features in an Agile environment, delivering over 5-10 features within sprints, ensuring alignment with business objectives.
- Guided backend development using Spring Boot, integrating SWIFT messaging for international trade and payment processing. Developed a RESTful API layer to handle trade data from over 15 sources, ensuring seamless communication and real-time data exchange for over 200,000 transactions daily.
- Designed and optimized the database using PostgreSQL, applying indexing and query optimization techniques, improving data retrieval speed by 40%. Incorporated security measures like OAuth 2.0 and JWT to ensure safe transactions and data integrity.
- Developed the frontend using React.js, focusing on user experience with responsive design. Implemented A/B testing, leading to a 15% increase in user engagement by optimizing the UI based on real user feedback and performance metrics.
- Conducted unit testing with JUnit and integrated CI/CD pipelines using Jenkins, automating the build and deployment process, reducing manual intervention by 30% and speeding up the release cycle by 20%.
- Deployed the application on AWS, utilizing Elastic Beanstalk for scalability and RDS for database management, ensuring high availability, fault tolerance, and seamless performance, handling over 50,000 concurrent transactions per day with zero downtime.

Associate Java Developer, LTIMINDTREE

05/2022 – 12/2023 | Remote, India

- Developed the CRM system using a microservices architecture with Spring Boot and Docker, collaborating in an Agile environment. Implemented A/B testing for feature optimization, resulting in a 25% increase in user engagement and ensuring seamless integration with over 10 third-party APIs.
- Led frontend development using React.js and Redux for state management, designing dynamic user interfaces with Material-UI components. Integrated WebSocket for real-time notifications, improving customer interaction response time by 30%, and implemented responsive design for 95% cross-browser compatibility.
- Engineered the database schema using PostgreSQL and MongoDB, optimizing complex queries and introducing database indexing, partitioning, and caching with Redis. Eased data retrieval time by 40% and supported a user base of over 10k active customers.
- Developed robust backend services with Spring Boot, using Spring Data JPA for ORM and Hibernate for efficient data transactions. Applied RESTful APIs and GraphQL for flexible querying and used RabbitMQ for asynchronous communication between microservices.
- Enhanced security by integrating OAuth 2.0 for authorization, JWT for secure token management, and AES-256 encryption for data at rest. Enforced Role-Based Access Control (RBAC) and 2FA for secure user authentication, ensuring compliance with GDPR and PCI DSS.
- Established automated CI/CD pipelines using Jenkins, GitLab CI, and Maven for continuous integration, with Docker containers for environment consistency. Integrated JUnit and Mockito for unit and integration testing, ensuring 99.9% test coverage and minimizing defects in production.
- Deployed the CRM solution on AWS, using AWS CodePipeline for deployment automation. Applied AWS IAM for secure identity management, scaled applications with Elastic Load Balancing, supporting over 50,000 concurrent users.

Education

Central Michigan University

01/2024 – 05/2025 | Mount Pleasant, MI, USA

Master of Science, Computer Science

R.V.R & J.C College of Engineering

08/2019 – 05/2023 | Guntur, India

Bachelor of Technology, Information Technology