Harin Bandarupalli

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SUMMARY

Full Stack Engineer with 10 years of experience delivering secure, high-performance web applications and scalable backend systems. Highly skilled in Angular, Spring Boot, and the AWS platform, with expertise spanning the entire development lifecycle—from architecture and design to deployment and optimization. Proven ability to build complex data pipelines, write clean and maintainable code, and architect resilient cloud-native solutions that solve critical business challenges.

EXPERIENCE

Senior Software Engineer

FINRA   **May 2020 – Present, Rockville, MD**

· Designed, developed, and deployed a revolutionary, highly-scalable microservices-based regulatory case management platform. Leveraging Angular's dynamic frontend and Spring Boot robust backend on AWS, this solution supported millions of cases with sub-second response times, integrating AWS Aurora (PostgreSQL) for relational data and optimizing data processing through asynchronous messaging queues, empowering stakeholders with intuitive workflows and lightning-fast data access.
· Orchestrated team-driven implementation of an enterprise-grade, event-driven ETL solution powered by Spring Boot applications, AWS Kinesis streaming infrastructure, Apache Flink distributed processing, and PostgreSQL database. This system consolidated approximately 50 entities of regulatory case events from both historical legacy systems and current modern platforms into a centralized data warehouse, enabling holistic business intelligence and automated compliance reporting.
· Developed over 50 secure microservices (REST API) with SAML authentication and role-based permissions, facilitating cross-departmental data sharing while protecting confidential regulatory case data.
· Designed and implemented serverless applications using AWS Lambda, API Gateway, and Aurora DB to create scalable, regulatory-compliant solutions for platform-wide common reference data management.
· Designed and implemented robust PL/SQL procedures to prepare and optimize data for Power BI, enhancing report performance and providing clear, actionable business intelligence.
· Designed and implemented four AWS Lambda functions to independently execute complex event transformation tasks, improving processing efficiency, scalability, and maintainability of the event-driven architecture.
· Automated end-to-end deployments via a custom orchestrator, facilitating one-click, concurrent, and sequential releases across diverse infrastructure components. Leveraging dry run capabilities, this pipeline achieved a 20% reduction in deployment errors.
· Leveraged Agile/Scrum methodologies to drive iterative feature delivery and continuous process improvement.

Backend Developer

Hilton   **October 2019 – May 2020, DALLAS, TX**

· Architected and deployed mission-critical microservices using Spring Boot, JPA, and MS SQL Server, powering hotel operations for 7300+ properties and processing daily transactions with 99.9% uptime.
· Built enterprise-grade RESTful APIs serving core hospitality functions including reservations, guest management, achieving sub-200ms response times under peak load.
· Designed and implemented database schemas within MS SQL Server, optimizing data storage and retrieval for efficient processing.
· Led end-to-end feature development from requirements analysis through production deployment, delivering ~30 new microservices that enhanced system modularity and reduced inter-service dependencies.
· Contributed to the full software development lifecycle, including design, coding, testing, and deployment of new microservices.
· Applied best practices in backend development, focusing on code quality, maintainability, and scalability within a fast-paced development
· Collaborated with cross-functional teams to define API specifications and integrate backend services, directly supporting the delivery of enhanced system capabilities.

Full Stack Develop

Anthem   **October 2018 – October 2019, Dallas, TX**

· Architected role-based microservices using Spring Boot that dynamically render healthcare data based on user authorization levels (members, representatives, providers), ensuring HIPAA-compliant data access and personalized experiences for 40+ million members.
· Developed comprehensive prescription management module by creating a new Angular component within user profiles, enabling members to renew/refill prescriptions, monitor refill counts, view copay details, track delivery status, and request home delivery services.
· Engineered secure RESTful APIs with role-based authentication and authorization, ensuring members access only their authorized healthcare information while enabling customer service representatives to manage multiple member accounts efficiently.
· Orchestrated cross-functional data integration by collaborating with pharmacy, claims, and member services teams to aggregate data from multiple healthcare systems, creating unified microservices that deliver real-time prescription and benefits information.
· Built responsive frontend components using Angular and TypeScript, creating intuitive user interfaces for complex healthcare workflows including prescription management, claims tracking, and benefit inquiries with mobile-first design principles.

Backend Developer

TracFone   **March 2017 – October 2019, Miami, FL**

· Developed and deployed a suite of robust microservices using Spring and JPA to power critical customer-facing functionalities on the Net10 website, including activation, re-up, auto-renewal, and change number processes etc.
· Designed and implemented dynamic API integrations with carrier systems, enabling seamless, type-specific request routing and real-time transaction processing.
· Optimized core business processes by building scalable microservices that facilitated efficient customer lifecycle management for thousands of mobile users.
· Collaborated cross-functionally with carrier partners to define API contracts and ensure reliable data exchange, directly supporting new product offerings and service activations.

EDUCATION

Masters in Computer Science

University Of Central Missouri · Warrensburg, Missouri · 2017

Bachelor of Technology

Minor in Information Technology · Jawaharlal Nehru Technological University, Kakinada · Kakinada, Andhra Pradesh, India · 2011

SKILLS

Frontend: TypeScript, Angular, Angular Material, Angular CDK, HTML5, CSS3, JavaScript (ES6+), RxJS, NgRx, Angular CLI, Responsive Design, Jasmine, Karma,postman

Backend: Java, Python, Spring Boot, Spring Framework, Spring MVC, Spring Data JPA, JPA/Hibernate, Maven, Gradle, JUnit 5, Mockito, RESTful APIs, Microservices, Docker, Git, Postman, Swagger/OpenAPI, Express.js

AWS Service: EC2, Lambda, ECS, S3, RDS, Aurora, DynamoDB, ElastiCache, API Gateway, VPC, CloudWatch, SQS, SNS, Kinesis, QuickSight, Database Migration Service.

Data: PostgreSQL, DynamoDB, DB, Oracle, Amazon Aurora

CI/CD: Jenkins, Docker, GitHub, Maven, Gradle, SonarQube, Git