Kota Shashikanth

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Professional Summary

10+ years of experience developing and deploying high-performance Java/J2EE applications on diverse platforms, including on-premise servers and cloud (AWS).

- Full-stack developer proficient in all phases of the software development lifecycle, from analysis and design to coding, testing, and implementation. Experienced in building robust and scalable applications using best practices.
- Experienced in designing and developing multi-tier Java web applications using Java technologies (Core, Spring, Spring Boot, Hibernate, JPA) and modern front-end frameworks (Angular, React). Proficient in building RESTful APIs and integrating with various database systems.
- Proficient in front-end development with a strong command of HTML5, CSS/ SCSS, JavaScript/TypeScript, and expertise in frameworks/libraries including **Angular**, React, NextJS, **Svelte Kit** and AngularJS.
- Expertise in architecting and developing scalable, reactive Angular applications utilizing **NgRx** for robust state management, **RxJS** for asynchronous operations, and modern reactivity with **Signals** and **Effects** for optimized performance and data flow.
- Strong command of Java including **Design Patterns**, **Multi-threading**, Collections, and modern Java features (**Streams**, **Lambdas**, etc.) to build scalable, concurrent, and well-structured applications.
- Proficient in the Spring Framework ecosystem, including core modules (**Spring Core, Spring IOC, Spring AOP**), web development (**Spring MVC, Spring Web**), data access (**Spring Data, Spring DAO, Spring JDBC**), and (**Spring Security**).
- Extensive experience in architecting, developing, and deploying applications across monolithic, microservices, and serverless architectures, demonstrating a strong command and practical expertise in all three paradigms.
- Experience in designing and developing both **SOAP** and **RESTful** web service architectures. Knowledgeable about service definition languages like WSDL for SOAP and API documentation tools like Swagger for RESTful services.
- Proficient in utilizing **Hibernate** and **JPA** for efficient data management and persistence in Java applications. Skilled in designing and developing data models and implementing robust database interactions leveraging ORM principles.
- Extensive experience developing and deploying scalable and resilient applications on AWS compute services (**EC2, EBN, Lambda, Step Functions**), utilizing **API Gateway** (public/ private) for API management, and implementing **Route53** for DNS management and **Regional WAF** for web application security.
- Optimized content delivery and application performance using **AWS CloudFront** for caching and distribution, backed by scalable and secure **S3** storage and protected by **CloudFront WAF** against web threats.
- Designed, developed, and maintained databases using **Oracle**, **SQL Server**, and **MongoDB** for diverse application needs. Expertise in developing complex queries and database objects including stored procedures and triggers to ensure data integrity and efficient data retrieval. Optimized database performance through query tuning and schema design for high-volume transactional systems.
- Implemented containerization strategies using **Docker** and **Kubernetes** to enhance application scalability, reliability, and deployment efficiency. Leveraged Docker for application packaging and dependency management, and Kubernetes for dynamic scaling, load balancing, and high availability.
- Skilled in leveraging **RabbitMQ** features including message routing, exchanges (Direct, Fanout, Topic), queue configuration, and message persistence for robust messaging solutions.

- Solved complex data streaming challenges by expertly utilizing **Apache Kafka** features such as Topic partitioning, Consumer Group rebalancing, and Broker configurations to achieve guaranteed message ordering and efficient scaling in high-demand, real-time financial transaction processing systems.
- Experienced with scheduling and orchestration frameworks including **Quartz Scheduler** and **Apache Camel** for automating background tasks and complex workflows.
- Dedicated to code quality and experienced in utilizing various testing frameworks such as **JUnit**, **TestNG**, **Jasmine**, **Karma**, and **Jest**.
- Experienced in utilizing various logging and monitoring tools including **Splunk**, **Datadog**, **Dynatrace**, and **AppDynamics** for production support. Proficient in analyzing application logs, performance metrics, and system dashboards to identify and resolve issues, and optimize system performance.
- Experienced in streamlining software delivery through automated CI/CD pipelines using **Jenkins** & **GitLab CI/CD**, and proficient in managing AWS infrastructure as code with **Terraform**. Focused on delivering efficient, scalable, and reliable solutions through DevOps best practices.
- Have very strong interpersonal skills and the ability to work independently and with the group, can learn quickly and easily adaptable to the working environment.
- Good exposure in interacting with clients and solving application environment issues and can communicate effectively with people at different levels including stakeholders, internal teams, and the senior management

Technical Skills

Languages	Java 7/ 8/ 11/ 17 (Corretto), Python, Javascript/ Typescript, PL/ SQL
Java/J2EE Technologies	Core (OOPS, Collections, Multi threading, IO, Reflections) Web Tier (Servlets, JSP, JSF), Business Tier (EJB, CDI), Persistence (JPA), Messaging (JMS), Web Services (JAX-RS, JAX-WS), Security (Java EE Security API) and Transactions (JTA)
Web Technologies	HTML5, CSS3/ SCSS/ SASS, JavaScript/ Typescript, Angular 18, Angular.JS, React.JS, NextJS, Redux, Bootstrap NgRX, NX, RxJS, Tailwind CSS, SveletKit
Cloud Platforms	AWS, Azure, Cloud Foundry
AWS Services	**Compute** (EC2, EBN, Lambda, Step Functions), **Storage** (S3), **Database** (RDS, DynamoDB), **Security** (IAM, KMS, WAF), **Networking** (VPC, Route53, CloudFront, API Gateway) **Management** (Systems Manager / App Config, Cloud Watch, Secrets Manager) **Application Services** (SNS, SQS, SES, EventBridge)
Frameworks/ Libraries	
Spring Libraries	Core, Boot, MVC, Data, Security, Cloud, Batch, Integration, AOP, WebFlux
ORM	Hibernate/ JPA, TypeORM, Prisma
Testing	JUnit, TestNG, Mockito, Jasmine/ Karma, Jest, Vitest
CI/CD Pipelines	Maven, Gradle, Docker, Kubernetes, Jenkins, Gitlab CICD, Github Actions
Design & Develop Tools	**App Servers** (IBM WebSphere, Apache Tomcat, JBoss), **Web Services** (SOAP, RESTful), **Database** (Oracle, SQL Server, MongoDB), **Version control** (SVN, GIT), **OS** (Windows, Linux)
Methodologies	Agile (Scrum/ Kanban), Waterfall, TDD (Test-Driven-Development), BDD (Behavior Driven Development)

State farm, Bloomington IL   **May' 21 to Present**
Sr. Software Engineer

Responsibilities:

- Developed and maintained highly interactive and performant user interfaces for complex web applications using **Angular**, focusing on component-based architecture, data binding, and reactive programming principles.
- Designed and implemented reusable Angular components and modules, significantly improving UI development efficiency and ensuring consistency across large-scale full-stack applications. Utilized **NX** code generation tools to maintain consistency and accelerate development of features for a multi-application/ library Angular project.
- Optimized Angular application performance by implementing **lazy loading**, change detection strategies, and efficient state management solutions using **NgRX**, resulting in improved user experience and faster loading times.
- Established and maintained comprehensive unit and integration testing frameworks for Angular components using **Jest** and **Karma**, ensuring high code quality, reliability, and maintaining **100% code coverage**.
- Automated the build, test, and deployment of Angular frontend applications to AWS **S3** using **GitLab CI/CD** pipelines, streamlining the release process and ensuring consistent and efficient deployments.
- Proactively ensuring code security and quality through the integration of **Fortify static** code analysis and addressing identified vulnerabilities
- Developed and deployed robust, high-performance microservices using **Spring Boot** framework, leveraging key features like **Spring Data** JPA, **Spring Security**, and **Spring AOP**for building scalable and resilient backend APIs.
- Designed and implemented **RESTful** APIs using Spring Boot, adhering to industry best practices for API design, security (OAuth 2.0, JWT), and comprehensive documentation (Swagger/OpenAPI), ensuring seamless integration with frontend Angular applications.
- Designed and developed highly scalable and cost-efficient serverless APIs using **NodeJS** and **AWS Lambda**, responsible for processing user requests, handling real-time events, data transformation
- Led the migration of critical on-premises Spring Boot applications to AWS, re-architecting components for cloud-native deployment and achieving significant improvements in scalability, resilience, and operational efficiency.
- Designed and implemented RESTful APIs using AWS **API Gateway** to manage and secure access to backend services, implementing features such as rate limiting, request validation, and API key management.
- Orchestrated complex workflows and business processes using **AWS Step Functions**, building state machines to manage asynchronous tasks, error handling, and integrations across various AWS services.
- Developed and deployed serverless backend logic using AWS Lambda functions triggered by API Gateway & Step Functions, ensuring scalable and cost-effective
- Implemented robust security measures within AWS infrastructure, leveraging **IAM** roles and policies to enforce least privilege access control across services and resources, and securing APIs with **WAF** (Web Application Firewall) to protect against common web exploits
- Optimized content delivery and improved application performance by configuring **AWS CloudFront** as a CDN to cache static and dynamic content, reducing latency and enhancing user experience globally.
- Managed DNS services and ensured high availability for web applications using **AWS Route 53**, configuring DNS records, **health checks**, and traffic policies for optimal routing and failover capabilities.

- Automated the provisioning and management of AWS infrastructure components using **Terraform**, implementing Infrastructure as Code (IaC) to ensure consistent and repeatable deployments.
- Developed and maintained Terraform modules for reusable infrastructure components, significantly reducing infrastructure deployment time and promoting standardization across projects.
- Integrated **Terraform** into **GitLab CI/CD** pipelines to automate infrastructure provisioning and changes as part of the application deployment lifecycle, enabling continuous delivery of both application code and infrastructure updates.
- Configured and managed alerting systems in **Splunk, Datadog and Dynatrace**, establishing thresholds and notifications for critical application and infrastructure metrics, enabling proactive incident response and minimizing downtime.

Technologies/ Frameworks/ Libraries/ Tools:

Angular 18, Java 11, NodeJS 22, Spring Boot 3.0, Oracle, Swagger, Splunk, Gitlab CICD, terraform, Microservices, Web Services, AWS (S3, CloudFront, CloudWatch, IAM, Lambda, Step Functions, API Gateway, Route53, ACM, EC2, EBK, Athena, DynamoDB, Redic (Elastic Cache), Kinesis, Secrets Manager, System Manager (App Config), KMS)

Wells Fargo, Des Moines, IA   **May' 19 to May' 21**
Sr. Software Engineer

Responsibilities:
- Successfully led the migration of multiple legacy Spring 4 applications to a modern microservices architecture using Spring Boot, resulting in improved scalability, maintainability, and deployment flexibility.
- Spearheaded the upgrade of a complex AngularJS application to Angular 9, leveraging modern Angular features and libraries to enhance performance and simplify ongoing maintenance.
- Implemented Apache Camel to efficiently manage message production and consumption between services, orchestrating application workflows and improving system integration.
- Architected and developed microservices utilizing various Spring modules (Core, Web, Data, Data Rest, AOP, Security, Session, LDAP), demonstrating expertise in building robust and secure distributed systems.
- Modernized data access layers by replacing legacy native SQL queries and SessionFactory with JPA entities and repositories, improving code readability and maintainability
- Addressed and resolved application cluster-level performance bottlenecks, implementing effective solutions that significantly improved application responsiveness and stability under load.
- Leveraged Spring AOP to implement centralized logging and performance monitoring, enabling proactive identification and resolution of performance issues at the method level.
- Optimized business logic implementation by extensively utilizing Java collections and streams, resulting in more efficient and concise code.
- Integrated Apache Kafka with Spring Boot applications utilizing Spring Kafka to produce and consume messages, enabling reliable and scalable event-driven communication between services.
- Tuned database queries using AppDynamics to identify and resolve performance bottlenecks during peak load, ensuring optimal application performance.
- Improved UI performance by migrating to Angular 9 and utilizing the Ivy renderer along with lazy loading of modules, leading to faster load times and a better user experience.
- Proactively ensured application security by conducting Fortify scans and addressing identified vulnerabilities to meet industry security standards.

- Maintained a secure dependency environment by performing regular Black Duck scans, mitigating risks associated with vulnerable third-party libraries.
- Championed code quality by performing Sonar analysis and implementing best practices to ensure a high standard of source code maintainability and readability.
- Integrated projects with Jenkins and UCD to establish and maintain a robust Continuous Integration/Continuous Delivery (CI/CD) pipeline, automating build, test, and deployment processes.
- Maintained 100% test coverage across all applications, ensuring high code quality and reducing the risk of production issues.

Technologies/ Frameworks/ Libraries/ Tools:
Java 8, J2EE, Spring, Hibernate, JPA, HTML, Angular, Bootstrap, SCSS, SOAP and Restful Web Services, Oracle, Tomcat, JBoss, Lodash, Junit, TestNG, Jasmine, Karma, Maven, Gradle, GIT, SVN, Jenkins, UCD, Appdynamics, Sonar

Northern Natural Gas, Omaha, NE   **Dec' 18 to May' 19**
Software Engineer

Responsibilities:
- Developed and maintained a user-friendly interface using HTML, AngularJS, and SASS, ensuring a responsive and visually appealing design.
- Leveraged ES6 features (modules, classes, arrow functions) within AngularJS to create modular, maintainable, and efficient frontend code.
- Implemented Webpack to streamline the frontend build process, ensuring seamless cross-browser compatibility by transpiling ES6 to standard JavaScript.
- Architected and built reusable AngularJS 1.6 components, directives, services, and controllers, significantly reducing code duplication and improving maintainability through effective input/output bindings.
- Improved application performance by refactoring existing frontend code and collaborating on backend optimizations, including the creation of SQL Stored Procedures.
- Designed and implemented RESTful APIs using Spring Controllers to facilitate communication between the frontend and backend systems.
- Developed robust business logic within Spring Services, effectively interacting with Data Access Objects (DAOs) for data manipulation.
- Utilized QueryDSL and JPA to write efficient and type-safe DAOs for performing CRUD operations on the database, ensuring data integrity and consistency.
- Defined JPA entities to accurately map Plain Old Java Objects (POJOs) to database tables and crafted named queries to optimize data retrieval from the underlying database.
- Successfully produced and consumed RESTful web services, enabling seamless data exchange and functionality integration with other internal modules.Developed and implemented complex SQL queries and stored procedures to support core application functionalities, optimizing data retrieval and manipulation.
- Designed and executed SQL queries to rigorously validate data integrity, accuracy, and consistency within the SQL Server database, ensuring data reliability for critical application processes.
- Optimized SQL queries within QueryDSL, resulting in improved application performance and reduced database load.
- Utilized Gradle for building and packaging Java applications into JARs and EARs for deployment.
- Implemented and maintained continuous integration/continuous delivery (CI/CD) pipelines using Jenkins to automate builds, testing, and deployments, contributing to faster release cycles.

Technologies/ Frameworks/ Libraries/ Tools:
Java 7, J2EE, Spring, Hibernate, Query DSL, JPA, XML, SLF4J, Tomcat (dev), Web Sphere (QA and higher), SQL SERVER, Intellij, HTML, Java Script, CSS, LESS, AngularJS, Bootstrap, Jenkins, JUnit, Spock, SOAP and Restful Web Services

Granular/ DuPont, Johnston, IA   **Oct' 18 to Dec' 18**
Software Engineer

Technologies/ Frameworks/ Libraries/ Tools: Html, Angular, SASS, Python, AWS (Lambda, Redis, API Gateway, S3, RDS, CloudWatch, Route 53, EC2, SQS DynamoDB), Sumo Logic, Jenkins, Sonar, Postgres, SQL Server, WebStorm, PyCharm, Data Grip

Wells Fargo, Des Moines, IA   **Nov' 16 to Oct' 18**
Software Engineer

Technologies/ Frameworks/ Libraries/ Tools: Java 8, J2EE, Spring, Spring Boot, JPA/ Hibernate, SOAP and Rest Web Services, Oracle, HTML, Java Script, CSS, AngularJS & Angular, Bootstrap, Log4j & Slf4J, JBoss, Junit & TestNG, Eclipse, Intellij, , Jenkins, Sonar

West Corporation, Omaha, NE   **Jun' 16 to Nov' 16**
Software Engineer

Technologies/ Frameworks/ Libraries/ Tools: Java 8, J2EE, Spring, Spring Boot, Hibernate, JPA, SLF4J, Postgres, Intellij, Jenkins, JUnit, SOAP and Restful Web Services, Gradle, Lodash. Splunk, RabbitMQ, Kafka.

Northern Natural Gas, Omaha, NE   **Mar 16 to May' 16**
Software Engineer

Technologies/ Frameworks/ Libraries/ Tools: Java 7, J2EE, Spring, Hibernate, Query DSL, JPA, XML, SLF4J, Tomcat (dev), Web Sphere (QA and higher), SQL SERVER, Intellij, HTML, Java Script, CSS, LESS, AngularJS, Bootstrap, Jenkins, JUnit, Spock, SOAP and Restful Web Services, Jasmine, Gradle, Lodash

Wells Fargo, Des Moines, IA   **Mar 14 to May' 16**
Software Engineer

Technologies/ Frameworks/ Libraries/ Tools: Java 7, J2EE, Spring 3, Hibernate, JSP, JDBC, XML, Log4j, JBoss, Oracle 11g, Eclipse, Intellij, HTML, Java Script, CSS, Angular JS, Bootstrap, Jenkins, Sonar, JUnit, SOAP and Rest Web Services

Net.Orange, India   **July'10 to Sept' 11**
Associate Software Engineer

Technologies/ Frameworks/ Libraries/ Tools: Adobe Flex, Adobe ColdFusion, ActionScript, Xml, Oracle 11g, Sql Server, Pentaho (ETL), SDLC.

Education and Certification

- ⟐ Masters in computer science, NYIT, NY
- ⟐ Bachelor of Technology from JNTU, India
- ⟐ Oracle Certified Associate (OCA)