

Vamshi G

Full Stack Software Engineer
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Professional Summary

- 5+ years of experience in design and development of Client/Server applications and microservices using Java, SpringBoot, Python, Node.js, Angular, React.js.
- Expert in Core Java with in-depth knowledge of concepts like Multithreading, Synchronization, Collections, Object Oriented programming, and Exception handling.
- Proven ability to excel in fast paced development environment using latest framework and tools like Java (JDK 11, 17), **SpringBoot**, **Hibernate**, **Redis**, **Kafka**, **React.JS**, **Angular**, **PostgreSQL**, **MySQL**.
- Created and Implemented **REST API** controller using Java, SpringBoot, **Spring Cloud frameworks** with built-in tomcat.
- Expertise in microservices Configuration **with Spring Cloud Config** and monitoring REST APIs with **SpringBoot Actuator**.
- Exposure on **Redis Cache**, **Kafka**, **Kafka Streaming**, Elastic Search, Amazon S3.
- Proficient in developing custom **Confluent Kafka Connectors** to migrate data.
- Experienced in developing **Kafka Streams** applications for real-time data processing and seamless data migration.
- Expert in data migration using **Java** and **Kafka**, effectively managing large-scale data transfers and ensuring reliable, real-time data integration across systems.
- Extensively used **Spring JDBC** template and **hibernate** for performing database transactions.
- Expert in conducting user research for Human-Centered Design (**HCD**), proficient in wireframing, prototyping, contextual inquiring, iterative testing to ensure design decisions are user-centered and aligned with business objectives.
- Proficient in **webpack** configuration and code splitting techniques to improve application performance by minimizing bundle sizes and accelerating load times.
- Brings extensive experience as a problem solver, **UI designer**, **UX researcher** and possesses leadership skills in agile product and application design and development.
- Successful background as **UI/UX Developer** having worked for small and large companies in Financial, Advertising Services, IOT and CMMS integrated Asset management.
- Experience in creating **React.js** web applications with JSX, nesting components, databinding, forms, routers.
- Proficient in building dynamic and interactive web applications using React.js, **Angular** and **visualizing data** with Chart.js.
- Good Experience in **SQL** databases like **PostgreSQL**, and **MySQL**.
- Involved in the creation of database objects like tables, view, stored procedures, functions, packages, DB triggers, Indexes.
- Design and develop cloud-native applications using **AWS** services such as **ECS**, **EKS**, and **Fargate**.
- Implemented a server-less architecture using API gateway, **Lambda** and **DynamoDB**.
- Used **GIT** to track maintain the different versions of the application.
- Developed test cases in **JUnit** for unit testing the classes in Java application.
- Extensive working experience in unit testing, code coverage, and static code analysis with **JUnit**, **Mockito**, and **SonarQube**.
- Used **Maven** to build Java/J2EE application.
- Hands-on experience in development of **Microservices** and deploying in **Docker**.
- Involved in issue tracking and agile project management using **JIRA**, and **Azure boards**.

Certifications

- Confluent Certified Developer for Apache Kafka.
- AWS Certified Developer Associate.
- AWS Certified Solutions Architect Associate.

Skills

Languages:	Java, Python, TypeScript, JavaScript, HTML, and CSS.
Frameworks:	SpringBoot, Spring Framework, Spring Cloud, Spring JMS, Hibernate, JUnit, Node.js, Angular, and React.JS.
Databases:	PostgreSQL, MySQL, and Redis.
Build Tools:	Maven, Jenkins, Bamboo.
Version Control:	Git, GitHub, Github Actions, Bitbucket, Azure Repos.
Data Streaming:	Apache/Confluent Kafka, Kafka Streams, Kafka Connect, KSQL, Apache Active MQ.
Other:	AWS, Terraform, JasperSoft, Docker, Jira.

Education

- George Mason University – Master of Science in Software Engineering.
- Jawaharlal Nehru Technological University – bachelor's in computer science & engineering.

Professional Experience

Software Engineer

August 2022 – Present

Ivis International

Remote

- Developed Java algorithm to assign client complaints to technicians based on geographic proximity and availability, balancing tasks in all cardinal directions and decreasing human interaction.
- Created and Implemented REST API controller using Java, SpringBoot, and Spring Cloud frameworks.
- Used Spring JDBC template and hibernate for performing database transactions.
- Implemented Kafka based Change Data Capture (CDC) to synchronize data in real-time across heterogeneous databases.
- Implemented Custom Kafka Connect Single Message Transforms (SMTs) to enhance data stream processing.
- Demonstrated problem-solving skills and attention to detail by developing and implementing a ticket scheduling algorithm tailored to address complex scheduling challenges specific to e-surveillance operations.
- Consolidated API documentation access across the microservices architecture by introducing Swagger into Spring Cloud Gateway; enhanced cross-team collaboration and reduced development time.
- Engineered and built a multi-threaded system in SpringBoot for efficient Redis data retrieval and visualized 30k+ Geographic coordinates on a map, enhancing data processing speed and real-time visualization capabilities.
- Utilized Redis as a distributed caching mechanism to improve application responsiveness and reduce latency for frequently accessed data, resulting in significant performance gains.
- Created Indexes on the database tables for faster retrieval of the data to enhance the database performance.
- Developed complex database objects like stored procedures, functions, packages, and triggers using SQL.
- Conducted Contextual Inquiry to understand the user behavior and needs while performing task to change the design and workflow of the web application.
- Created Reusable components like focus input and clicks outside components using React.js for DOM manipulation.
- Used Bootstrap alongside React.js to make web pages look more attractive and user friendly.
- Used ES6 features such as let, const, modules, and others in React.js.
- Used React-Router to turn the application into a single page application.
- Involved in performing Unit testing written test cases using the JUnit testing framework.
- Used MAVEN as a build tool on java projects for the development of build artifacts on the source code.

Software Engineer

January 2018 – July 2022

Motivity Labs Inc

Hyderabad, India

Project: Intelligent401k

- Designed and developed financial statements for retirement account holders using Jasper Studio, SpringBoot, and PostgreSQL.
- Set up automated financial statement generation and delivery using Amazon Lambda, EventBridge, and AWS SES.
- Designed comprehensive financial reports and statements using JasperReports/Jasper Studio, delivering clear and detailed financial insights to stakeholders and users.
- Engineered and implemented Single Sign-On (SSO) utility for web applications using AWS Cognito with Node.js, and JSON Web Token (JWT).
- Enhanced security by implementing Multi-Factor Authentication with mobile OTP verification using AWS Cognito, Angular, and Node.js.
- Integrated Stripe API to efficiently manage customer profiles, subscriptions, transactions, and promo codes.
- Implemented an automated subscription management system using SpringBoot and Stripe Payments API.
- Developed a webpage for displaying reports and financial statements using Angular and TypeScript.
- Created a webpage for creating and modifying promo codes in the Stripe Payment system. using React.js.
- Built a webpage to display payment plans from Stripe Payment Gateway, tailored to client needs.
- Created a Stripe Payment Gateway integrated API endpoint to send visually engaging payment receipt emails with custom HTML templates, enhancing user experience.
- Developed a RESTful API endpoint and configured it to automatically refresh all users' retirement account data from Yodlee daily.

- Used Aspose in Java to automate legally signed document generation for retirement account applications and streamlined email delivery via Amazon SES.
- Implemented Named Native Queries for business scenarios that improved the application performance in retrieving data from the database.
- Integrated Yodlee API to fetch aggregated financial data into the application and display using Chart.JS.
- Implemented EHCache to accelerate retrieval and rendering of retirement account data, greatly boosting system performance and improving user experience.
- Optimized database queries to improve the application performance and expose data through REST APIs.
- Implemented a feature in Angular to export retirement account holdings into Excel sheets using JS libraries like xlsx.
- Implemented JUnit test cases to ensure code functionality and reliability.
- Collaborated with team members to build secure, scalable software products under Agile.
- Develop, and oversee bug reports, conduct code reviews, and ensure effective team communication.

Project: DigitalReef

- Developed a React-based web interface to display ads and track customer interaction metrics, ensuring a seamless user experience by tailoring ads based on user activity.
- Implemented Redis for faster retrieval of ad data, significantly improving system performance and user experience.
- Leveraged Apache Kafka to capture real-time user web activity, including video impressions, likes, and dislikes, to dynamically recommend ads in users' feeds, improving ad relevance and engagement.
- Produced user activities from React.js frontend via APIs to Kafka, enabling real-time processing and analytics of user interactions.
- Developed reusable React.js components such as a focus input and click-outside detector, which streamlined DOM manipulation and reduced development time by 25% across multiple projects
- Used Service Locator Design Pattern to differentiate ads service among multiple mobile carriers.
- Configured multiple Redis clusters in AWS to ensure high availability, optimizing data storage and retrieval for enhanced system reliability and performance.
- Developed responsive and cross-browser compatible UI components using HTML, Bootstrap, CSS, and React.js ensuring consistent user experience across devices.
- Used log4j to print the logging, debugging, warning, and info on the server console.
- Conducted performance optimizations and code refactoring to improve code readability, maintainability, and scalability.

Project: Helixsense

- Implemented asynchronous data rendering to tables using promises and async functions in React.
- Developed a reusable data export utility in React for efficient export of employee details, bookings, and other datasets from tables, enhancing application data management.
- Optimized main.js file size by implementing lazy loading in index.jsx to dynamically load app.js, enhancing performance.
- Configured webpack with code splitting techniques to improve performance by reducing bundle sizes and speeding up application load times in a React application.
- Employed Purgecss Plugin to remove unused CSS classes, optimize stylesheet sizes and improve application performance.
- Implemented a build once - deploy many plan in React by leveraging environment variables, ensuring efficient and consistent deployment across different environments.
- Enhanced page load speed by removing thread blockers and optimizing resource allocation, significantly increasing traffic to previously neglected pages using React, JavaScript, and CSS.

