**Hemanth Raj Garlapati**

**Sr. Java Full Stack Developer**

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| **PROFESSIONAL SUMMARY** |

* Around 11 years of extensive professional experience as a Java **J2EE** Developer, specializing in Object-Oriented Analysis, Design, Development, Implementation, and Maintenance of complex web and distributed enterprise applications utilizing Java and related **J2EE** frameworks and technologies.
* Expert in designing, building, and deploying enterprise-level applications using Java versions 1.8, 11, and 17, effectively leveraging the robust features of **J2EE** for enhanced business logic implementation, system integration, and scalability across diverse industry domains.
* Adept at developing and managing databases using **SQL** and PL/**SQL** with significant hands-on experience across various database platforms including Oracle 10g/11g/12c, **SQL** Server 2012-2016, **MySQL** 5.7, DB2 11.1, Postgre**SQL** 9.4.10, and Google **BigQuery** for scalable data solutions.
* Skilled in creating interactive, responsive, and visually appealing user interfaces by leveraging modern web technologies including **HTML**, **JavaScript**, Bootstrap, **Ajax**, **XML**, and SAML, enhancing usability and overall user experience.
* Experienced in developing dynamic front-end solutions using Angular (versions 2-15), leveraging its component-based architecture for creating reusable UI modules, streamlining development processes, and promoting code maintainability.
* Proficient in **React.js**, leading front-end migration projects from legacy systems, significantly improving application responsiveness, scalability, and user experience through optimized rendering and modular component architecture.
* Demonstrated expertise in implementing token-based authentication and authorization strategies with JWT, providing secure and efficient authentication mechanisms, ensuring robust security compliance in web and mobile applications.
* Highly skilled in utilizing **Spring** Framework’s dependency injection and IOC mechanisms to create loosely-coupled, maintainable components, significantly enhancing application modularity, testing efficiency, and lifecycle management.
* Extensive experience in rapidly prototyping, building, and deploying **Microservices** with **Spring** Boot, harnessing its auto-configuration and embedded server features to significantly reduce time-to-market and streamline operational workflows.
* Proficient in securing RESTful APIs and **Microservices** architecture using **Spring** Security with advanced JWT authentication and role-based authorization schemes, ensuring secure data exchange and effective access management.
* Adept at optimizing database interactions using **Spring** **Data JPA**, developing custom query methods, implementing efficient transaction management strategies, and significantly improving overall system performance.
* Skilled in state management in Angular using solutions like NgRx, proficiently handling complex application states, streamlining data flow, and effectively managing side effects to enhance application stability.
* Proven experience in implementing efficient routing and lazy loading strategies within Angular applications, significantly reducing initial loading time, improving performance, and enhancing overall application scalability.
* Proficient in developing internationalization (i18n) features within **React.js** applications, enabling seamless multilingual support, expanding market reach, and enhancing global user engagement and satisfaction.
* Experienced in utilizing **Redux**-Saga for efficient management of asynchronous tasks and side effects within complex React applications, significantly enhancing readability, maintainability, and responsiveness of front-end systems.
* Strong advocate and practitioner of TypeScript in **React.js** projects, improving code quality, maintainability, and scalability through robust static type checking, reducing runtime errors and streamlining developer collaboration.
* Highly experienced in designing and developing scalable and secure RESTful APIs using **Node.js** and Express.js, facilitating seamless and efficient communication between diverse client applications and backend services.
* Proficient in architecting real-time communication applications using **Node.js** with **WebSockets**, enabling instantaneous messaging, dynamic data synchronization, and significantly improving user interaction in web applications.
* Extensive expertise in cloud deployments, particularly with Azure App Services, effectively utilizing **CI/CD** pipelines, automated deployments, and efficient scaling strategies to manage highly available and resilient web applications.
* Strong command of containerization and orchestration technologies, specifically Docker and Kubernetes, significantly enhancing **Microservices** architecture scalability, efficiency, and reliability in diverse deployment environments.

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| **TECHNICAL SKILLS** |

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| **Languages** | C, C++, Java 1.8, Java 11, Java17, **J2EE**, **SQL**, PL/**SQL** |
| **Frameworks** | **Spring**, Hibernate, **Angular 15**, 7,8,9,11, React JS, **Spring** Security, **Spring** MVC, **Spring** Boot, **Spring** Data, **Spring** Cloud, **Spring** Eureka, **Spring** AOP, **Spring** Hystrix, Struts, Django, Spark, JSF. |
| **Design Patterns** | Singleton, DTO Pattern, DAO Pattern, Delegate Pattern, Service Facade, Factory Pattern, Front Controller Pattern, MVC Pattern. |
| **Application servers** | Apache Tomcat 8, IBM WebSphere, JBOSS, WebLogic |
| **Relational Databases** | Oracle 10g/11g/12c, **SQL** server 2012/2014/2016, **MySQL**, DB2, Postgre**SQL**, Big Query, |
| **NoSQL Databases** | MongoDB, DynamoDB, Cassandra, |
| **Internet Technologies** | **HTML**5, **JavaScript**1.8, JSON, JavaBeans, SOAP, CSS3 and JSP, jQuery, Bootstrap, **Ajax** SAML, WSDL, JAX -WS, JAX -RPC, REST, SAX/DOM parsers, Jersey, BackBone.JS, Polymer.JS, **Node.js**, **Microservices**. |
| **Cloud Environments** | Azure, **AWS**, **AWS** EC2, **AWS** **ECS**, IBM Cloud Private, **AWS** Lambda, Cloud watch. |
| **IDE** | Eclipse, NetBeans 8.0.2, IntelliJ IDEA 2017.1, **Spring** Tool Suite, WebStorm, Atom. |
| **Operating system** | Windows 10, Linux Mint, Unix. |
| **Messaging** | JMS MQ, Rabbit MQ, IBM MQ, Apache Kafka. |
| **Testing Tools** | JUNIT, JMeter, Mockito, TestNG, Jasmine, Karma, Selenium. |
| **Methodologies** | Agile, Waterfall, TDD (Test-Driven-Development), Scrum, Kanban. |
| **Build Tools** | Ant, Maven, Log4J, Sonar Lint, SonarQube, Gradle, Jenkins, Kubernetes, Docker. |
| **Version and Source Control** | GIT, Bit Bucket, GITHUB. |
| **XML Technologies** | **XML**, XSLT, TCP/IP, LAN, WAN, XSD. |

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| **PROFESSIONAL EXPERIENCE** |

**Client: Dick's Sports, GA Sep 2023- Present**

**Java Full Stack Developer**

**Key Contributions:**

* Collaborate closely with product managers and designers to gather detailed requirements, design user-friendly, responsive web application, and plan comprehensive solutions aligned with business objectives.
* Architect and develop scalable front-end applications using **Angular 15**, optimizing modularity through lazy loading and dynamic component management to enhance maintainability, scalability, and runtime performance.
* Implement advanced routing strategies within Angular to ensure efficient resource utilization, faster page loads, and improved user experience, leveraging Angular built-in optimization tools.
* Integrate robust security protocols into the front-end architecture by applying **Angular 15**’s security features to protect against vulnerabilities such as Cross-Site Scripting (XSS) and Cross-Site Request Forgery (CSRF).
* Drive back-end development efforts by designing and implementing RESTful web services utilizing Java JAX-RS, ensuring efficient communication and seamless integration between client applications and server-side logic.
* Build comprehensive **Microservices** architectures using **Spring** Boot and **Spring** Cloud, employing domain-driven design principles to enhance application modularity, scalability, and maintainability across distributed systems.
* Optimize Java applications by leveraging Java 17’s advanced features, including pattern matching, sealed classes, and improved stream APIs, enhancing code readability, maintainability, and application efficiency.
* Architect and manage cloud infrastructure on **AWS**, utilizing EC2 for compute scalability, S3 for efficient storage solutions, and **ECS** alongside **AWS** Lambda for orchestrating event-driven, serverless application environments.
* Configure secure **AWS** environments by establishing Virtual Private Clouds (VPCs) and managing relational databases through **AWS** RDS, ensuring fault tolerance, data security, and efficient resource allocation.
* Design and manage relational databases using Oracle 11g, focusing on schema design optimization, transaction management, query performance tuning, and ensuring seamless data integrity across business-critical applications.
* Architect and optimize No**SQL** databases like MongoDB, defining efficient schema structures and employing best practices for embedded documents and arrays, enhancing query performance and data accessibility.
* Develop real-time streaming data solutions by configuring and managing Kafka clusters, ensuring high availability, scalability, and optimized performance through meticulous producer-consumer management and monitoring strategies.
* Establish robust continuous integration and continuous deployment (**CI/CD**) pipelines using Jenkins and Docker, automating build, test, deployment, and ensuring consistent application performance across diverse environments.
* Lead comprehensive testing efforts, employing Test-Driven Development (TDD) with frameworks like JUnit and Mockito, alongside end-to-end integration testing with Protractor and Selenium, ensuring application reliability and stability in an Agile environment.
* Provide technical leadership and mentorship to team members, facilitating agile practices, ensuring alignment with best coding standards, and driving continuous improvement within the development lifecycle.

**Client: Goldman Sachs, NY March 2020- Aug 2023**

**Java Full Stack Developer**

* **Key Contributions:**
* Collaborated extensively with business stakeholders and analysts to gather requirements, analyze business processes, and conceptualize comprehensive software solutions, aligning technical implementations with strategic business goals.
* Defined and constructed the application architecture leveraging **J2EE** design patterns, clearly distinguishing between presentation, business logic, and persistence layers, ensuring robust, maintainable, and scalable application structures.
* Developed robust server-side components and efficient client-side interfaces utilizing **React.js**, significantly improving user experience through optimized component rendering, state management, and responsive design.
* Integrated front-end interfaces with **Microservices** architecture through RESTful APIs, enabling seamless data communication between **React.js**-based UI and Java **Spring** Boot backend services, improving application responsiveness and modularity.
* Led the implementation of **React.js** components using **Redux** for state management, significantly reducing component coupling, improving application predictability, and simplifying data flow across complex interactive features.
* Designed and implemented custom React Hooks to encapsulate and reuse business logic across various UI components, reducing redundancy, enhancing readability, and improving overall maintainability of the codebase.
* Secured application interactions by embedding JWT-based authentication mechanisms within **Microservices**, enforcing robust authorization and authentication protocols, effectively protecting sensitive operations and resources.
* Enhanced user experience and system accessibility by integrating Single Sign-On (SSO) capabilities utilizing OAuth and JWT tokens, simplifying authentication flows and securely managing user permissions across various applications.
* Optimized front-end data interactions by integrating GraphQL, enabling efficient data fetching, reducing network payload sizes, and significantly improving client-side performance and responsiveness in dynamic **React.js** applications.
* Managed and optimized distributed data solutions by integrating Apache Kafka, configuring robust producer and consumer services, effectively processing large-scale real-time streaming data, and ensuring seamless system integration.
* Engineered cloud-based solutions on **AWS**, architecting serverless functionalities using **AWS** Lambda and optimizing content delivery through **AWS** CloudFront and S3 buckets, significantly enhancing application performance and scalability.
* Designed data storage solutions with Cassandra, applying optimal data modeling techniques tailored for distributed architectures, significantly improving database performance, consistency, and scalability.
* Managed continuous integration and deployment pipelines through Jenkins and Docker, streamlining build and deployment processes, significantly reducing time-to-release, and ensuring consistent application stability across environments.
* Conducted comprehensive testing strategies utilizing Selenium, JUnit, Mockito, Jasmine, and Karma, enhancing application reliability, identifying critical issues proactively, and significantly reducing post-deployment defects.
* Implemented infrastructure-as-code practices using Terraform and Kubernetes, effectively managing infrastructure provisioning, environment consistency, application deployment, and scaling with enhanced security and reliability.

**Client: TD Bank, NJ. Dec 2018- Feb 2020**

**Java Full Stack Developer**

**Key Contributions:**

* Led the architectural design and implementation of scalable **Microservices** solutions using Java 11 and **Spring** Boot, ensuring high performance and efficient data persistence through strategic use of Hibernate.
* Established secure and maintainable **Microservices** by leveraging **Spring** Boot for rapid development, implementing REST endpoints integrated with Swagger for dynamic documentation and ease of client interaction.
* Collaborated actively in an Agile development environment, participating in sprint planning, daily stand-ups, sprint reviews, and retrospectives to ensure timely delivery and continuous improvement of software development processes.
* Designed and developed responsive web applications with Angular 7, optimizing user experiences by utilizing advanced features such as Virtual Scrolling, Drag-and-Drop from Angular CDK, and improved error handling capabilities.
* Enhanced application capabilities by developing Progressive Web Applications (PWAs) using Angular 7, leveraging Service Workers to significantly improve offline functionality, caching strategies, and overall user accessibility.
* Managed efficient asynchronous data communication and real-time UI updates using RxJS within Angular applications, simplifying complex state management and ensuring consistent user interactions across dynamic interfaces.
* Improved the reliability and performance of **Microservices**-based systems by orchestrating containerized applications using Docker, automating continuous integration and deployment pipelines with Jenkins to maintain high deployment standards.
* Ensured robust real-time data handling and event-driven processing by designing and fine-tuning Apache Kafka pipelines, achieving optimal message throughput, reliability, and minimal latency in streaming data applications.
* Secured **Microservices** and cloud deployments with comprehensive IAM implementations, integrating **AWS** services including Lambda, API Gateway, and **ECS**, while managing infrastructure provisioning through **AWS** CloudFormation.
* Developed robust testing strategies and automation scripts using frameworks such as JUnit, Mockito, Karma, Jasmine, and Selenium, significantly improving application stability, compatibility, and reducing potential production issues.

**Client: Softeq, Texas March 2016- Nov 2018**

**Java Developer**

**Key Contributions:**

* Collaborated closely with business stakeholders to design intuitive, user-friendly front-end interfaces, creating interactive screens and responsive layouts that enhanced usability and user satisfaction.
* Built dynamic and responsive user interfaces employing Angular 4, Bootstrap, **HTML**5, CSS, and **JavaScript**, significantly improving application scalability, maintainability, and user interaction.
* Developed and maintained structured front-end architectures using Angular’s enhanced directives and improved Dependency Injection (DI) system, streamlining component reuse and optimizing UI rendering performance.
* Designed and implemented robust application logic using MVC design patterns, clearly delineating presentation layers from business logic, thus enhancing code readability, modularity, and ease of future modifications.
* Managed effective API development and integration processes, creating interactive and comprehensive documentation using Swagger, facilitating clear communication and ease of adoption for both internal and external developers.
* Developed efficient and reliable **Microservices** architecture using **Spring** Boot, integrating Docker for containerization and deploying on cloud platforms, improving scalability, performance, and deployment efficiency.
* Designed and maintained databases with Oracle, creating optimized **SQL** queries and stored procedures, ensuring robust data management, improved query performance, and efficient transactional data processing.
* Implemented efficient real-time messaging solutions using RabbitMQ in high-availability clustered environments, enhancing asynchronous communication capabilities, reliability, and overall system responsiveness.
* Managed advanced application logging, monitoring, and error handling strategies using Log4j and ElasticSearch, significantly improving system reliability, error detection, and resolution timelines.
* Actively participated in Agile processes, utilizing JIRA for efficient task management, issue tracking, and sprint planning, enhancing project visibility, coordination, and delivery timelines.

**Client: Promatics Technologies ,Pune June 2013- Nov 2014**

**Software Engineer**

**Key Contributions:**

* Collaborated with cross-functional teams to design and implement scalable web solutions, developing responsive UI screens using **HTML**5, CSS3, **JavaScript**, and **React.js**, ensuring optimal user experience across all devices.
* Engineered real-time collaborative features using **React.js** and Socket.IO, enabling efficient live interactions such as document editing and data synchronization, significantly enhancing user engagement and productivity.
* Developed robust **Microservices** using **Spring** Boot, leveraging minimal configuration setups to streamline rapid development, deployment, and integration with other services, contributing significantly to overall system agility.
* Designed and implemented Progressive Web Applications (PWAs) utilizing **React.js**, significantly enhancing application accessibility, performance, and offline capability, thereby providing seamless user experiences.
* Managed cloud infrastructure using **AWS** services, deploying applications with **AWS** Lambda, API Gateway, and integrating secure authentication mechanisms, ensuring highly available, secure, and scalable backend operations.

**Education Details:**

Master’s (Trine University - master’s in information studies)

Bachelors(Aurora Degree and P.G College - B.Sc. Computer Science)