

Venkat Dhulipalla

JAVA FULL STACK DEVELOPER

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SUMMARY

- **Java Full Stack Developer** with 4+ years of hands-on experience in designing, developing, and deploying applications.
- Proficient in the entire **Software Development Life Cycle (SDLC)**, from requirement gathering and analysis to application design, development, testing, deployment, and maintenance.
- Strong backend development skills using **Java, Python, and C++** with frameworks like **Spring Boot, Spring MVC, and Hibernate ORM**, specializing in **RESTful API** design and **microservices** architecture.
- Experienced in **Spring Boot** which enables rapid development of production-ready applications by providing default configurations and reducing boilerplate code.
- Experienced in creating **High-Level Design (HLD)** and **Low-Level Design (LLD)** documents, and implementing LLD using **Java 8** and newer versions (including **Java 17+**), coupled with **Spring Boot** for application development.
- Extensive experience with **React JS, Redux, and React Hooks**, leveraging state management and component-based architecture for scalable front-end development.
- Skilled in database management with a proven track record of working with relational databases (**MySQL, PostgreSQL**) and NoSQL databases (**DynamoDB, MongoDB, Cassandra DB**).
- Experienced in using a wide range of development tools, including IDEs like **IntelliJ IDEA and NetBeans**, version control with **Git/GitHub**, and **CI/CD pipelines with Jenkins**.
- Familiarity with cloud computing platforms (**AWS Cloud**), containerization with **Docker**, and orchestration with **Kubernetes**.
- Expertise in unit testing with **JUnit, Mockito, React Testing Library, and Jest**, ensuring robust code quality and effective test coverage.
- Experienced in deploying applications on **Apache Tomcat, WebLogic**, ensuring scalability, reliability, and performance.
- Proficient in formulating rigorous **form validations**, implementing efficient **APIs**, securing data with **JWT tokens**, and **optimizing API** performance for seamless user experiences.
- Dedicated to continuous learning, implementing best practices in software development, and ensuring code quality with tools like **Swagger Open API and SonarQube**, **proficient in API testing with POSTman**.

SKILLS

Programming Languages:	Java, Python, C++, HTML5, CSS3, Bootstrap, UI Material, JavaScript, Typescript, ES6, React JS, Redux, React Hooks
Frameworks:	Spring Boot, Spring MVC, Web Services, REST API, RESTful API, Microservices, Hibernate ORM
J2EETechnologies	Servlets, JSP, JDBC, JMS, Multi-threading
IDEs	Visual Studio Code, IntelliJ IDEA, Eclipse, Gradle, NetBeans
Web Services	RESTful, SOAP
Databases	SQL, MongoDB (NoSQL), PostgreSQL, MySQL, Oracle
CI/CD & Tools	Jenkins, Code Ship
Testing tools	JUnit, Mockito, React Testing Library, Jest
Cloud & Deployment	AWS, Azure, Docker
Web Server	Apache Tomcat, WebLogic, JMeter, JBoss
Other	Agile, Jira, SVN, Ant, Git, Scrum, GitHub, Terraform, Kubernetes, Bitbucket, Swagger Open API, SonarQube, POSTman
Operating System	Windows, LINUX, Mac OS

EDUCATION

Master of Science in Computer Science | North Texas University, Dallas, Texas, USA

Bachelor of Technology in Electronics and Communication | Osmania University, Hyderabad, India

WORK EXPERIENCE

Software Engineer | **Optum**, TX, USA

August 2023 – Present

- Designing a robust healthcare analytics platform using **Java 17+** and **Spring Boot 3** for efficient backend API development.
- Integrating **Elasticsearch** to optimize data indexing and search functionalities, improving data retrieval speeds by **50%** and search accuracy by **30%** through Elasticsearch integration.
- Configuring client-side routing using **React Router**, enabling seamless navigation and enhancing user interaction within the healthcare analytics platform.
- Implementing **Java modules (JPMS)** to modularize **Spring Boot** applications, significantly boosting scalability and maintainability in **large-scale healthcare** analytics platforms. Enhancing **REST API** capabilities for optimized performance and seamless interoperability.
- Utilized **Kafka Streams API** for real-time healthcare data processing, enabling advanced analytics and integrated **Apache Kafka** across **microservices** for enhanced data exchange and collaboration.
- Generating **JWT tokens as OAuth2** access tokens upon successful authentication, ensuring stateless and scalable token-based authentication across distributed healthcare analytics services.
- Using **Java CompletableFuture** for asynchronous processing of healthcare data, improving application responsiveness by **60%** through asynchronous processing of healthcare data.
- Implementing auto-scaling policies with **AWS Auto Scaling & load balancing with Elastic Load Balancing**, automatically scaling infrastructure based on demand, reducing operational costs by **40%** during off-peak times.
- Applying **Java 17 features** (Pattern Matching, Foreign Function API, Sealed Classes) and **Spring Boot 3** to enhance healthcare data processing for real-time analytics, and transformation with scalability and maintainability.
- Optimizing **Azure Cassandra** schema for efficient storage & retrieval of data, ensuring scalability and performance.
- Collaborating closely with cross-functional teams using **Agile methodologies like Scrum**, ensuring timely feature delivery and alignment with business objectives, fostering a collaborative and iterative development environment.

Tech Stack – Java, Spring boot, Microservices, RESTful APIs, Elasticsearch, React Router, JWT, OAuth2, AWS Auto Scaling, Elastic Load Balancing (ELB), Kafka Streams API, Azure Cassandra, Agile methodologies

Java Full Stack Developer | **Capgemini**, India
2022

September 2019 – August

- Led backend modernization efforts using **Java EE** technologies to enhance scalability and performance of critical financial services applications.
- Decomposed monolithic **Spring boot** application into **10+ microservices**, each responsible for a specific business function, improving system flexibility and deployability.
- Developed and maintained **PostgreSQL** stored procedures and functions to encapsulate business logic and ensure data consistency and integrity across application transactions.
- Implemented functionality to upload files to **AWS S3 buckets** using the **AWS SDK for Java**. This allowed the financial services application to store documents, reports, and other critical files securely in S3.
- Participated in the creation of **High-Level Design (HDL)** documents to align client requirements with project objectives, ensuring clarity and alignment.
- Implemented **Java 8+** features like **Lambda Expressions** and **Stream API**, alongside Spring Boot, to transform detailed **Low-Level Designs (LLD)** into scalable and high-performance applications for two distinct projects.
- Utilized **multithreading** to manage concurrent database connections and execute parallel queries efficiently. This approach reduced latency in data retrieval and processing, enhancing overall application performance.
- Used **Docker** containers to encapsulate application components and dependencies, streamlining deployment processes and ensuring consistency across development, testing, and production environments.
- Managed API versioning and lifecycle using **Swagger**, enabling seamless backward compatibility and API evolution strategies without breaking existing client integrations.
- Enabled remote **debugging** in Spring Boot applications to connect your IDE to a running application instance, allowing real-time debugging and inspection of live data and application state.
- Integrated Form with **CI/CD pipelines (Jenkins, GitLab CI)** to automate the deployment and management of infrastructure changes, ensuring rapid and reliable delivery.

Tech Stack – Java EE, Java Servlets, Multithreading, PostgreSQL, Docker, Spring Boot, React.js, Maven, HTML, Swagger, CI/CD, Jenkins, Terraform, AWS S3, SDK, Microservices