

COVER LETTER BY

# KARTHIK V

## SOFTWARE ENGINEER

DEAR HIRING MANAGER

I am writing to express my interest in the Software Engineer position at your company. With over 6+ years of experience in Java/J2EE, C, Python, Spring Boot, Spring MVC, Microservices, NodeJS, CSS, HTML, JavaScript, Angular, Vue, React, JDBC, Jenkins, SonarQube, JUnit, REST, Oracle, SQL, Docker, Kubernetes, AWS EKS RDS, EC2, MSK, S3, EFS, IAM, CloudWatch, Jenkins and AWS, I am confident that my skills align well with your company's commitment to innovation and delivering results.

Your organization is known for its professionalism and forward-thinking approach, and I believe my expertise in both front-end and back-end development, combined with my knowledge in cloud technologies, would allow me to contribute significantly to your team. As noted in my attached resume, I have a proven track record of optimizing systems, improving performance, and delivering scalable applications that meet business objectives.

I would be interested in learning more about the opportunities at your company and how my experience can align with your needs. I will follow up with you to discuss a convenient time to further explore how my abilities can contribute to your team's success. Feel free to reach me at **+1(816)-376-9016** or via email at [vankarthik123@gmail.com](mailto:vankarthik123@gmail.com).

Thank you for your time and consideration. I look forward to speaking with you.

Thanks & Regards,  
Karthik

## Karthik Vankayala

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### Career Overview

Full Stack Developer with 6+ years in Java/J2EE, web application design, development, and implementation. Proficient in end-to-end Software Development Life Cycle, including design, coding, Unit testing, debugging, and documentation, using Java/J2EE, Angular, React, Node, Continuous Integration/Continuous Deployment pipelines, GUI, RDBMS, Data Modeling, Data Structure, Enterprise Application Container Orchestration, Automated Testing and cloud technologies (AWS).

### Professional Summary:

- Designed and implemented scalable enterprise applications using Java J2EE technologies such as Servlets, JSP, Spring Boot, Spring MVC, and Hibernate, while integrating RESTful and SOAP web services for seamless data exchange.
- Developed secure backend systems utilizing Java Persistence API (JPA), Java Messaging Services (JMS), RabbitMQ, and implemented advanced authentication protocols like OAuth 2.0, OIDC, SSL, and TLS.
- Specialized in creating dynamic and responsive user interfaces with AngularJS, ReactJS, Node.js, jQuery, TypeScript, and Bootstrap, ensuring an optimal user experience across platforms.
- Extensive knowledge of core Java concepts, including Collections, Stream API, Exception Handling, Multithreading, and Parallel Streams, to enhance backend efficiency and maintainability.
- Experienced in every phase of the software development lifecycle, from requirements gathering and analysis to deployment and maintenance, in both Agile and Waterfall methodologies.
- Proficient in database technologies like Oracle, MySQL, and MongoDB, with expertise in writing complex SQL queries, stored procedures, triggers, and optimizing database performance.
- Implemented and deployed microservices architectures using Spring Boot, Docker, and AWS, leveraging cloud resources like EC2, S3, Lambda, and RDS for scalable solutions.
- Skilled in build automation and CI/CD tools, including Maven, Jenkins, and GIT, ensuring smooth project management and streamlined deployment pipelines.
- Applied rigorous testing standards using tools like Cucumber, Selenium WebDriver, JUnit, and Mockito to deliver high-quality, reliable software solutions.
- Collaborated with stakeholders to conduct Root Cause Analysis, create innovative technical solutions, and align software development with business objectives while ensuring robust security measures.

### Technical Skills

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Programming Languages	: Java/J2EE, Python, C#
J2EE Technologies	: JSP, Servlets, JSTL, JSF, EJB, JAX-RPC, JDBC, JMS, JAXB, GWT, Mockito, Spring DAO, Spring Core, Eureka, Hibernate, JPA, Log4j, Apache
Web Technologies	: HTML/HTML5, XML, CSS/CSS3, Bootstrap, JSP, Ajax, jQuery
Application Frameworks	: Microservices, Spring MVC, Spring Boot, Struts, Spring Batch, Web-flux.
Messaging Broker	: Kafka, RabbitMQ, ActiveMQ
Scripting Languages	: Java Script, TypeScript, Vue.js, Nodejs, React, Angular, ExpressJs
Authentication/Security	: OAuth2.0, OpenID, JWT, SAML, Okta
Web Servers/Application	: Apache Tomcat, IBM WebSphere, WebLogic, JBoss, Jetty
API Tools	: Swagger, Curl, Postman
CI/CD Tools	: Jenkins, Terraform, Spinnaker, Circle CI, Gitlab
Web Services	: REST API, SOAP, XML Bean, GraphQL, gRPC
Build Tools	: Maven, Ant, Gradle, MuleSoft, SonarQube, Helm
Databases	: Oracle (SQL), MySQL, MongoDB, PostgreSQL, DB2, NoSQL, Redis
Methodologies	: Agile, Waterfall, TDD (Test Driven Development), DDD, BDD
Version Control	: GIT, SVN, CVS, GitHub
Cloud/AWS Service	: Azure, Google Cloud (GCP), Aws S3, Lambda, IAM, VPC, EC2, ECS, Fargate and RDS
Container Technologies	: Docker, Kubernetes, OpenShift, Dev-ops
Defect Tracking Tool:	: SPIRA, JIRA
Testing Tools	: Junit, Cucumber, Selenium, Jest, Cypress, Jasmine, Karma, TestNG
Monitoring/Logging Tools	: Actuator, Splunk, AWS Cloud watch, Grafana, Prometheus, Logback, Resilience4j

## PROFESSIONAL EXPERIENCE

### Vsion Technologies, Tx 2024 – Present, Remote Software Engineer

January

- Designed and developed robust web applications based on client requirements, utilizing Java EE, Struts, and Spring Boot for scalable and modular architecture.
- Managed day-to-day activities including resolving tickets, debugging issues, and implementing feature enhancements while collaborating in an Agile environment.
- Worked extensively with a tech stack comprising Java, Angular, React, Spring Boot, JPA, Kafka, Jenkins, and Git, adhering to modern CI/CD practices and architectural best practices.
- Optimized database performance and system efficiency by implementing caching, indexing, and advanced ORM strategies, reducing query execution time by 20%.
- Delivered end-to-end solutions from UI/UX design to deployment using OpenShift, Docker, Maven, Jenkins, and Git, modernizing legacy systems with Spring Boot and React.

### Tata Consultancy Services, India -Delta Airlines 2022 – December 2022 Software Engineer

January

- Architected and deployed high-performance microservices using Spring Boot, Spring MVC, and Java J2EE technologies, integrating RESTful APIs with Oracle-backed EJB applications for real-time data processing.
- Streamlined the user request flow using Spring MVC controllers and interceptors, while resolving tickets and collaborating with cross-functional teams to enhance backend and frontend

functionalities.

- Utilized React, HTML, CSS, and JavaScript to create responsive web applications
- Built and integrated Apache Kafka for real-time data streaming, ensuring fault-tolerant, scalable messaging systems, and optimized database performance with advanced SQL tuning in Oracle DB.
- Deployed end-to-end solutions, from creating user-friendly front-end interfaces to deploying and maintaining back-end services with RESTful APIs and JWT-based authentication, reducing maintenance costs by 25%.

**Cognizant Technology Solutions, India – Vodafone Ziggo**  
**2019 – January 2022**  
**Full Stack Developer**

**March**

- Collaborated on requirements gathering and system design in an Agile environment, developing scalable enterprise applications using Microservices, and React.
- Built dynamic and responsive Single Page Applications (SPAs) using React, implementing components, services, routing, and reactive forms to enhance user experience and functionality.
- Addressed high-priority issues with debugging expertise and consistently delivering reliable, high-quality code recognized by clients for its technical excellence.
- Used AWS SDK for connection to Amazon S3 buckets and EC2 to deploy Docker container/images with Microservices architecture.
- Worked on Nginx, Hystrix for fault Tolerance and load balancing during heavy user peaks time reducing downtime by 70%.

**Byte Alpha, India**  
**2018 – March 2019**  
**Java Developer**

**April**

- Engineered robust microservices using REST APIs and Spring Boot, employing advanced Java concepts such as multi-threading, Stream API, Parallel Streams, Hash Map Concurrency, Lambdas, Enums, Annotations, and Concurrency to enhance performance.
- Utilized JPA in the Data Access Layer for ORM and used DAO pattern to retrieve data from database.
- Fine tuned backend efficiency by integrating React with REST APIs, leveraging advanced Java features like Streams and Lambda expressions for seamless data processing.
- Improved application performance through React lazy loading, dynamic route guards for role-based access, and modular architecture for maintainability and scalability.
- while using Maven for build automation, Jenkins for CI/CD by building JAR/WAR file, and GIT for version control.

**Portfolio website Link:** <https://karthikvankayala.github.io/my-portfolio.github.io/>

## **EDUCATION**

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**Master's:** University of Central Missouri

- Jan 2023 – May 2024
- Major: Computer Science
- GPA: 3.5