VISHWANTHTHALLA

Senior Software Engineer
Austin, TX

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PROFESSIONAL SUMMARY

Senior Software Engineer with 5 years of experience building scalable, cloud-native applications using Java, Spring Boot, Microservices, REST APIs, ReactJS, and Angular. Skilled in AWS, Azure, Docker, Kubernetes, CI/CD pipelines, serverless architectures, GitOps workflows, observability (Prometheus, Grafana), and AI/ML, with a focus on secure, high-performance, production-ready software.

EDUCATION

Master of Science (Computer Science), Auburn University, USA | August 2021 - December 2022
Bachelor of Technology (Computer Science), Aurora University, India | May 2015 - May 2019

WORK EXPERIENCE

Northern Trust, Chicago, IL   November 2024 - Present
Senior Software Engineer
Northern Trust is a leading global financial services firm specializing in wealth management, asset servicing, and investment solutions.

- Re-architected legacy systems into scalable, cloud-native microservices using Spring Boot, deployed via Azure App Services, Azure Functions, and serverless architectures, improving performance and resilience by 35%.
- Delivered full-stack enterprise applications with Spring Boot, ReactJS, JavaScript, and Tailwind CSS, enhancing usability and reducing workflow friction by 20%.
- Built and secured RESTful, SOAP, GraphQL, and gRPC APIs for inter-service communication, integrated with Spring Security and OWASP standards, while implementing Redis caching and Aurora Serverless to reduce database load by 40% and improve API latency by 60%.
- Deployed microservices to Azure Kubernetes Service (AKS) using Docker, Helm, and ArgoCD, enabling auto-scaling, service isolation, and zero-downtime deployments.
- Developed and optimized CI/CD pipelines (Jenkins, GitHub Actions, Azure DevOps) reducing release time by 30% and introducing GitOps workflows, while automating cloud infrastructure provisioning with Terraform, Pulumi, and Crossplane to improve infrastructure reliability.
- Implemented observability and distributed tracing with Prometheus, Grafana, ELK Stack, and OpenTelemetry for proactive diagnostics, improving incident resolution by 20%.
- Engineered event-driven architectures with Kafka, RabbitMQ, and ActiveMQ, and enforced cloud-native security practices using DevSecOps pipelines, Checkmarx, Snyk, and Aqua Security to reduce vulnerabilities.
- Conducted performance testing and load analysis with Postman and JMeter, validating reliability under heavy workloads.
- Accelerated development with AI pair-programming tools (GitHub Copilot) and implemented AI/ML integrations using LangChain, OpenAI APIs, and LLM Ops to support AI-powered features, automated ML pipelines, and prompt engineering, reducing repetitive coding by 25%.
- Tech Stack: Java 17, Spring Boot, ReactJS, Tailwind CSS, Azure (Functions, App Services, AKS), Jenkins, GitHub Actions, Docker, Kubernetes, Terraform, Pulumi, Crossplane, Redis, Aurora Serverless, Kafka, RabbitMQ, ActiveMQ, Prometheus, Grafana, ELK Stack, OpenTelemetry.

Truist Bank, Charlotte, NC   February 2023 - November 2024
Senior Software Engineer
Truist Bank is one of the largest U.S. financial institutions, offering banking, lending, and digital innovation services to individuals and businesses.

- Migrated legacy monolithic applications to reactive, cloud-native microservices using Spring Boot WebFlux, deployed on AWS EC2, Lambda, RDS, and S3, improving scalability and reducing operational complexity by 30%.
- Designed and implemented high-throughput RESTful, GraphQL, and asynchronous APIs with Spring Boot and Node.js, integrated with MongoDB and JMS for non-blocking real-time processing.
- Provisioned and managed infrastructure with AWS CloudFormation, ensuring version-controlled and repeatable environments in line with DevOps best practices.

- Automated CI/CD pipelines using Jenkins, GitHub Actions, and OpenShift, improving deployment efficiency by 35% and minimizing downtime.
- Engineered event-driven architectures using Kafka, ActiveMQ, AWS SNS, and SQS, enabling reliable, decoupled service communication.
- Applied Spring Security for robust authentication/authorization and implemented BDD/TDD using JUnit, Selenium, and JMeter, achieving 90%+ test coverage.
- Built dynamic, responsive SPAs with ReactJS, delivering intuitive front-end experiences and seamless backend integration.
- Collaborated in Agile/Scrum teams, working with cloud, security, and product teams to deliver high-quality, scalable solutions aligned with business goals.
- Enhanced observability and monitoring using AWS CloudWatch, Prometheus, and Grafana, improving incident response.
- Integrated AI-assisted development tools (GitHub Copilot) for faster prototyping and boilerplate code reduction.
- Tech Stack: Java 17, Spring Boot WebFlux, Node.js, GraphQL, AWS (EC2, Lambda, RDS, S3, SNS, SQS), ReactJS, MongoDB, Kafka, ActiveMQ, Jenkins, GitHub Actions, OpenShift, CloudFormation, Prometheus, Grafana, Selenium, JUnit, JMeter.

Netenrich Technologies Pvt. Ltd, Hyderabad, India   July 2019 - July 2021
Software Engineer
A Fortune 100 global insurance company providing personal and commercial insurance solutions, with a strong focus on innovation and digital transformation.
- Developed scalable, event-driven RESTful microservices using Spring Boot, Java, and MongoDB, powering enterprise-grade insurance and financial applications.
- Built dynamic SPAs (Single-Page Applications) with Angular, TypeScript, and Bootstrap, improving user experience and front-end responsiveness by 25%.
- Integrated Apache Kafka and ActiveMQ to enable distributed messaging and real-time event processing, ensuring high throughput and fault-tolerant communication.
- Designed and managed CI/CD pipelines using Jenkins, GitHub Actions, Docker, and Kubernetes, enabling rapid, zero-downtime deployments.
- Deployed microservices on AWS (EC2, ECS, Aurora), ensuring high availability and fault tolerance at scale.
- Conducted unit, integration, and API testing using JUnit, Mockito, and Postman, achieving 90%+ test coverage and reducing production defects by 30%.
- Collaborated within cross-functional Agile teams, focusing on cloud-first architecture, secure coding practices, and continuous delivery improvements.
- Enhanced monitoring and logging by configuring AWS CloudWatch and ELK Stack, improving issue detection and resolution time by 20%.
- Tech Stack: Java, Spring Boot, Angular, TypeScript, Bootstrap, AWS (EC2, ECS, Aurora, CloudWatch), MongoDB, Kafka, ActiveMQ, Docker, Kubernetes, Jenkins, GitHub Actions, JUnit, Mockito, Postman, ELK Stack.

Kale Logistics Solutions, Hyderabad, India   January 2019 - May 2019
Software Intern
- Built responsive web pages using HTML, CSS, and Bootstrap to deliver seamless user experiences across devices.
- Worked closely with designers to implement clean, pixel-perfect layouts and reusable UI components.
- Improved website performance by optimizing CSS and assets, reducing load times by 20%.
- Tech Stack: HTML, CSS, Bootstrap

SKILLS

Languages & Frameworks: Java 8/17, Spring Boot, Spring Security, React, Angular, Node.js, HTML5, CSS3, Bootstrap, TypeScript
Cloud & DevOps: AWS (EC2, S3, IAM), Docker, Kubernetes, Jenkins, Git, GitHub Actions, Terraform, Helm, ArgoCD, Azure DevOps
Databases & Messaging: Oracle SQL, PostgreSQL, MongoDB, Apache Kafka, ActiveMQ, Redis
Testing & API: JUnit, Mockito, Selenium, Postman, REST, GraphQL, OAuth2, JWT, SAML
Monitoring & Tools: Prometheus, Grafana, ELK Stack, Power BI, Linux Shell Scripting
Others: Event-Driven Architecture, Microservices, Multithreading, SAS, Visual Basic, Networking (TCP/IP, WebSockets)

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate (2023)
- Microsoft Certified: Azure Fundamentals (2023)
- Oracle Certified Professional, Java SE 8 Programmer (2020)