**Vennela Gutha**

**Full stack Java Developer**

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**Professional Summary**

* **Experienced Full stack Java Developer** with over 5+ years of expertise in designing, developing, and deploying scalable web applications in the **enterprise domain**. Proven track record in delivering robust, high-performance solutions across various industries such as banking, finance, logistics, and insurance.
* Expertise in **Java**, **Spring Boot**, **Microservices**, **React.js**, **Node.js**, **AWS** (**EC2**, **Lambda**, **RDS**, **EKS**), **Docker**, **Kubernetes**, and **CI/CD** technologies like **Jenkins** and **Terraform**. Skilled at utilizing cloud-native and containerized environments to build secure and highly available applications.
* Adapt in **Agile methodologies**, leading cross-functional teams through the software development lifecycle. Experienced in implementing **DevOps practices** to automate infrastructure, enhance deployment processes, and ensure reliable product delivery.
* Strong focus on **performance optimization**, **security best practices**, and **scalable architecture design**. Demonstrated success in solving complex challenges with cutting-edge technologies and providing enterprise-level solutions that drive business growth.
* Deep understanding of integrating front-end and back-end systems, utilizing modern **front-end frameworks** (**React.js**, **Angular**) and **back-end technologies** (**Spring Boot**, **Microservices**, **RESTful APIs**), enhancing the user experience, and ensuring optimal system performance.

**Professional Experience**

**Altice USA Jan 2024 to Present**

**Role:** Full stack Java Developer

**Environment:** Java 17, Spring Boot, React.js, AWS (EC2, S3, Lambda, RDS, EKS), Docker, Kubernetes, Jenkins, Terraform, Redis, PostgreSQL

**Responsibilities:**

* Spearheaded the **design and implementation** of a **microservices-based architecture** for a **highly scalable content management platform**, enhancing the user experience and system performance.
* Developed **RESTful APIs** using **Spring Boot** to integrate backend services and provided robust data handling for user interactions. Optimized API performance by implementing **Redis caching** to reduce response times and enhance scalability.
* Built **interactive front-end components** with **React.js**, incorporating **Redux** for efficient state management, improving user experience and interface responsiveness.
* Designed REST APIs in **Node.js 16** and **Express.js** to bridge microservices, offload lightweight processing, and support real-time analytics.
* Implemented **AWS EKS** for container orchestration, leveraging **Docker** for consistent deployments and **terraform** for automated cloud infrastructure provisioning.
* Established end-to-end **CI/CD pipelines** with **Jenkins**, improving development workflows and minimizing deployment downtimes. Integrated logging and monitoring with the **ELK Stack** to track system behavior and promptly address performance issues.
* Led the security enhancement of the application by implementing **OAuth2** authentication, ensuring secure data transactions, and achieving compliance with industry standards (e.g., PCI DSS).
* Leveraged **LLMs** (GPT, BERT) for content recommendations, auto-tagging, and summarization via Lang Chain, Hugging Face, and OpenAI APIs.
* Containerized applications using **Kubernetes** and deployed via Clienture DevOps pipeline integrated with GitHub Actions.
* Used **Docker** to containerize Java and Node.js services, deployed via **Kubernetes (EKS)** for scalable orchestration and monitoring.
* Collaborated with Agile teams, contributing to sprints, reviews, and daily standups. Automated UI and API testing with **Selenium**and CA DevTest.
* Developed **RAG** pipelines and fine-tuned models to enhance content management capabilities through Generative AI workflows.

**Bank of America Jan 2023 to Dec 2023**

**Role:** Full stack Java Developer

**Environment:** Java 11, Spring Boot, Angular, AWS (S3, Lambda, DynamoDB, SNS), Jenkins, Terraform, PostgreSQL, MongoDB, OAuth2, JWT

**Responsibilities:**

* Developed and optimized **critical banking applications**, ensuring secure, fast, and high-performance processing of **financial transactions**.
* Designed and implemented **dynamic front-end solutions** with **Angular** and **Material UI**, providing an intuitive and responsive user interface for internal banking tools.
* Integrated **AWS Lambda** and **DynamoDB** to enable scalable, event-driven architecture, allowing real-time transaction processing with minimal overhead.
* Built and exposed **RESTful APIs** for **microservices communication**, using **OAuth2** for secure authentication and **JWT** for token-based authorization, protecting sensitive financial data.
* Automated **cloud resource provisioning** using **Terraform**, reducing operational overhead and enabling efficient management of AWS infrastructure.
* Created modular **Node.js** APIs using **Express.js** for middleware services and data orchestration, integrating with **DynamoDB** and **MongoDB** for high-availability NoSQL persistence.
* Established messaging pipelines using **RabbitMQ** and **ActiveMQ** for async communications between Spring and **Node.js** services.
* Enhanced **CI/CD pipeline automation** with **Jenkins** to streamline deployments and speed up the software release cycle, improving overall product delivery.
* Leveraged **LLMs** (GPT, BERT) for predictive transaction analysis and anomaly detection, improving fraud prevention capabilities.
* Developed **RAG** pipelines for enhanced real-time transaction monitoring and integrated Generative AI workflows to predict transaction patterns and optimize risk management.
* Conducted performance analysis and optimization, ensuring that the application could handle high-volume transactions without compromising responsiveness.

**Prudential Financial Mar 2022 to Dec 2022**

**Role:** Full stack Java Developer

**Environment:** Java 17, Spring Boot, React.js, PostgreSQL, AWS (ECS, S3), Apache Kafka, Docker, Kubernetes, Jenkins, Helm

**Responsibilities:**

* Led the development and deployment of a **microservices-based** solution for **financial analytics**, enabling data-driven decision-making for internal stakeholders.
* Built **real-time data pipelines** using **Apache Kafka**, facilitating seamless streaming and processing of business-critical information, supporting better forecasting and insights.
* Utilized **AWS ECS** for containerized deployments, ensuring application availability, scalability, and efficient resource utilization.
* Built scalable back-end services in **Node.js 16** using Express.js, implementing **GraphQL resolvers** for dynamic querying alongside high-volume **Kafka** messaging.
* Streamlined **CI/CD pipeline** with **Jenkins** and **Helm**, automating application rollouts and improving release frequency.
* Designed and optimized **PostgreSQL** database queries, implementing indexing and partitioning strategies that drastically reduced query latency and improved overall performance.
* Implemented **centralized logging** and monitoring via **ELK stack**, providing real-time insights into system health and quickly diagnosing bottlenecks during production support.

**IS Solutions (India) June 2019 to July 2021**

**Role:** Full stack Java Developer

**Environment:** Java 8, Spring Boot, Angular, PostgreSQL, Apache Kafka, Docker, Kubernetes, GitLab, Jenkins

**Responsibilities:**

* Developed **financial applications** by creating secure, high-performance **REST APIs** using **Spring Boot** and integrating them with **Angular** front-end.
* Optimized **event-driven architecture** using **Apache Kafka** for real-time data streaming across services, enhancing transaction processing capabilities.
* Integrated **AWS S3** for secure document storage and leveraged **Lambda** functions for serverless computing and data transformation tasks.
* Led the development of a warehouse management solution using **Spring Boot 2.5** and Node.js 14, implementing **GraphQL APIs** for real-time querying and seamless frontend integration.
* Developed REST and GraphQL services in **Node.js 14** using **Express.js**, connected to a **PostgreSQL** and **MongoDB** data store, enabling CRUD operations and real-time querying.
* Designed secure **APIs** with **OAuth2** and **JWT-based authentication** to ensure sensitive data was properly secured during communication.
* Configured and deployed applications in a **cloud-native environment** using **Docker** containers, **Kubernetes** for orchestration, and **GitLab** for source control and CI/CD pipelines.
* Reduced application downtime by implementing **automated testing** with **Selenium** and **JUnit** and incorporating performance profiling tools for optimization.
* Contributed to **sprint planning**, **requirements gathering**, and **status reporting**, ensuring efficient project management and timely delivery of features.

**Education**

Master of Science - Computer and Information Sciences, Troy University, Troy AL Aug 2021-Dec 2022