Vinay Kumar Vishwakarma

Software Engineer | +1 (571) 354-3415 | vinay.11vishu@gmail.com | Reston, VA | LinkedIn | Portfolio

SUMMARY

A skilled software engineer with 7+ years of experience and expertise in building **cloud-native applications using Java, Spring Boot, and microservices** architecture. Proven ability to drive customer-centric solutions through excellence and innovative design strategies.

TECHNICAL SKILLS

Languages & Frameworks: Java, Python, JavaScript, SQL, Spring Boot, Hibernate, JPA.
Cloud & DevOps: AWS (EC2, S3, Lambda, API Gateway, SQS, CloudFormation), Docker, Jenkins.
Databases: MySQL, NoSQL, **PostgreSQL**, **MongoDB**, Redis, **Elasticsearch**, Couchbase.
Tools & Technologies: RabbitMQ, REST APIs, **Kafka**, Kibana, Git, **Maven**, Node.js, JWT, Microservices Architecture.

PROFESSIONAL EXPERIENCE

Software Development Engineer **April 2024 - Present**
CloudNova Technologies, LLC *Reston, Virginia*

- Managed an AWS cloud-native CSPM platform using Java and Spring Boot to address fragmented cloud security monitoring. Improved asset visibility by **40%** and reduced security incidents by **30%**, enabling real-time monitoring of more than **10000** cloud resources, and saving the company **15%** in potential security costs annually.
- Built a real-time compliance automation engine using Drools BRMS to enforce CIS, NIST, GDPR, and PCI DSS controls across AWS services, eliminating manual compliance reviews and reducing audit preparation time by **70%**.
- Optimized **Kibana** dashboards backed by **Elasticsearch** indexes with client-specific spaces using REST APIs, reducing dashboard load time by **60%** and accelerating onboarding experience.
- Implemented a centralized **AWS FinOps** platform delivering detailed cost breakdowns, discount and credit tracking, and AWS Marketplace insights, optimizing cloud spend by **15 to 20 percent**.
- Engineered AWS CI/CD pipelines with CloudFormation templates and blue-green deployment strategies, reducing deployment time by **25%** and enabling zero-downtime releases.

Software and Business Analyst Intern **July 2022 - December 2023**
Sagitec Solutions, LLC *St. Paul, Minnesota*

- Developed **Java** and **Spring MVC** application features with an enhanced JavaScript front-end, implementing data masking for **privacy compliance**, and utilizing Hibernate ORM with optimized SQL queries.
- Conducted business requirements analysis for the UI Benefits application, ensuring seamless implementation. Performed **system testing** of the application and validated data through **SQL** queries.

Senior Software Engineer **November 2016 - August 2021**
nuVizz Inc. *Bangalore, India*

- Developed a HIPAA-compliant SaaS web application using **J2EE** & **Spring Boot** based microservices, streamlined healthcare logistics, and developed real-time fleet tracking using geolocation from the mobile app to track over 10000+ drivers daily.
- Designed and implemented payment gateway integration with BillDesk using **Java REST APIs**, generating **$130K** in revenue and improving transaction success rate by **25%**.
- Implemented **RabbitMQ** message broker for inter-service communication between Java Spring Boot microservices. Used **Redis** database for caching user session tokens generated using **JWT** for authentication & session management.
- Built a **Couchbase DB** based caching layer in Java backend applications to optimize API response times by serving JSON responses from cache, significantly reducing load on databases and improving UI response time.
- Migrated critical application data from **MySQL** to **MongoDB**, improving database query performance by 50% and enhancing horizontal scalability for a growing user base.
- Built a comprehensive logging system using **Elasticsearch REST APIs** for real-time event tracking and cross-platform communication between mobile apps and backend services.
- Led a team of 6 engineers, provided product knowledge transfer and guidance while assigning tasks, and managed CI/CD pipelines with **Jenkins** and **Docker** and application deployments on **Kubernetes**, achieving **99.5%** application uptime.

EDUCATION

George Mason University **Fairfax, Virginia**
Master of Science in Computer Science May 2023
Coursework: Operating Systems, Distributed Systems, Algorithms, User Design, Data Science.