

KANDULA VINOD KUMAR

Senior Software Developer | NIT Jalandhar

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Vinod Kumar Kandula



PROFESSIONAL SUMMARY

Dynamic Senior Backend Developer with 5+ years of experience building scalable, high-performance distributed systems in fintech and telecom domains. Skilled in microservices, cloud-native architectures, and API development with a focus on performance, reliability, and security. Proven ability to lead technical initiatives, mentor teams, and implement best practices in clean architecture and continuous delivery. Passionate about scalability, collaboration, and driving innovative backend solutions.

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, Node.js, Shell Scripting
- **Frameworks & Libraries:** Spring Boot, Hibernate, J2EE, Django, FastAPI, LangChain, React, Angular, Express.js
- **Databases & Storage:** MySQL, PostgreSQL, SQL Server, MongoDB, Redis, Elasticsearch, Snowflake, InfluxDB, Neo4j (Graph DB)
- **API Paradigms & Integrations:** REST API, SOAP, OAuth2, Swagger, KrakenD Gateway, Nginx Rev Proxy
- **Messaging & Streaming Systems:** Apache Kafka, RabbitMQ, Redis Streams, Amazon SNS/SQS
- **Cloud Platforms:** AWS (EC2, S3, Lambda, CloudWatch, EKS, RDS, API Gateway), Microsoft Azure (AKS, DataBricks), IBM Cloud
- **Containerization & Orchestration:** Docker, Kubernetes (Helm, Ingress, Kubeadm), OpenShift
- **DevOps & CI/CD Tools:** Git, Bitbucket, GitLab CI, Jenkins, Jira
- **Monitoring, Logging & Performance:** Prometheus, Grafana, Kibana, Telegraf, ELK Stack, Postman, JMeter
- **Testing & Quality Assurance:** JUnit, Mockito, PyTest, Postman, Regression Frameworks
- **Security & Compliance:** TLS/SSL, Token-Based Authentication, IAM, Keycloak, Role-Based Access Control.
- **Other Technologies:** Blockchain, Linux/Unix Administration, Shell Automation, Multithreaded Microservices Architecture, Event-Driven Systems

EDUCATION

Dr. B. R. Ambedkar National Institute of Technology

Jalandhar, India

Bachelor of Technology in Electronics and Communication Engineering

2016 – 2020

EXPERIENCE

TechGrit Solutions Pvt Ltd.

Senior Software Developer

Jul 2024 - Feb 26

- **Dashboard & Analytics Engineering:** Designed and deployed data-driven dashboards for the TapestryX B2B platform, improving transaction visibility, system traceability, and overall user experience. Mentored engineers through design, implementation, and optimization phases.
- **Blockchain-Integrated Transaction Systems:** Developed secure blockchain-based modules ensuring auditability, immutability, and system reliability with reusable frameworks standardizing transaction workflow.
- **Event-Driven Microservices Development:** Implemented scalable microservices using Kafka-based asynchronous architecture, boosting throughput, fault tolerance, and system scalability.
- **Cloud & Containerized Deployments:** Managed cloud-native applications across AWS, Azure, and IBM Cloud, configuring Kubernetes clusters and Helm charts for fault-tolerant, high-availability operations.

- **System Architecture & Scalability:** Collaborated on system design, risk analysis, and NFR compliance, achieving stable high-concurrency performance and improving uptime and load efficiency.
- **API Design & Development Standards:** Established API governance, code quality practices, and OAuth2-based authentication, creating reusable SDKs and integration wrappers for modular maintainability.
- **Messaging & Streaming Infrastructure:** Built resilient messaging systems using Kafka and Redis, focusing on low-latency, high-throughput, and fault-tolerant data streaming pipelines.
- **Observability & System Monitoring:** Deployed Prometheus, Grafana for comprehensive logging, alerting, and real-time insights, reducing MTTR and improving system observability.
- **Performance & Load Optimization:** Conducted profiling, benchmarking, and load testing, enhancing system throughput by 25% and removing performance bottlenecks under production workloads.
- **CI/CD Automation & Testing:** Enhanced Jenkins pipelines and regression testing, achieving 98% defect-free releases while cutting build and deployment time by up to 20%.
- **Security & Access Management:** Implemented TLS encryption, token-based authentication, and service-to-service authorization, aligning with best practices for secure distributed systems.
- **AI & Conversational Systems:** Developed LLM-based chatbots using LangChain and FastAPI, automating user interactions and streamlining business workflows.
- **Leadership & Team Development:** Mentored developers on microservice design, container orchestration, and testing strategies, driving technical growth and cross-functional collaboration.

Comviva Technologies

Senior Software Engineer

April 2022 – July 2024

- **Scalable SaaS Platform Development:** Built a high-performance SaaS platform using Spring Boot microservices, supporting real-time message broadcasting at with optimized concurrency and transaction management.
- **Microservices & Event-Driven Architecture:** Designed an event-driven architecture using Apache Kafka, integrating REST, SOAP, and XML protocols for seamless system interoperability.
- **Data Pipeline & Analytics Engineering:** Developed ETL and analytics pipelines using Elasticsearch, MySQL, and Oracle, improving reporting efficiency and reducing query latency.
- **Middleware & System Optimization:** Implemented a Node.js middleware layer to handle millions of daily transactions, improving processing speed by 20% and reducing memory consumption by 15%.
- **Serverless Payment Integration:** Integrated the MTN MoMo gateway using AWS Lambda, processing ₹4.2M+ monthly transactions, leveraging SNS/SQS for asynchronous, reliable communication.
- **Enterprise Solution Customization:** Integrated banking APIs, telecom feeds, and third-party services to deliver domain-specific, compliant enterprise implementations.
- **Mentorship & Knowledge Sharing:** Trained junior engineers on clean architecture, debugging practices, and microservice scalability, improving overall team productivity and delivery efficiency.

Software Engineer

August 2020 – April 2022

- **SMPP Messaging & Concurrency Optimization:** Enhanced Java/Spring SMPP modules and multithreaded MO handlers, ensuring delivery of 40K+ multilingual messages/month and 1.5K+ messages/day with improved concurrency and reliability.
- **Frontend Engineering & UI Customization:** Delivered React-based UI themes using modular components, meeting enterprise branding and UX requirements.
- **Automated Reports & Notifications:** Created automated reporting workflows using Node.js, Node Mailer, and Shell scripting, streamlining daily email reports for all stakeholders.
- **System Maintenance & Resource Management:** Built log cleanup utilities archiving data regularly, optimizing server performance and disk usage.
- **Monitoring & Reliability Enhancements:** Upgraded Shell-based monitoring systems to track health metrics, process failures, and storage status, reducing unplanned downtime by 50%.