

# NANDHA KUMAR JAGANATHAN

## SOFTWARE ENGINEER

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## SUMMARY

Experienced Software Engineer with 5+ years in building scalable backend systems, cloud-native infrastructure, and B2B EDI solutions., skilled in microservices, Kubernetes, Docker, CI/CD automation, and cross-functional collaboration.

## PROFESSIONAL EXPERIENCE

### Application Engineer

#### Centene Corporation, Saint Louis, MO | Sept 2024 – Present

- Worked with SRE team in creating infrastructure platforms for confluent Kafka to provision Producers, Consumers, Schema registry and Topics.
- Developed data processing pipelines using Apache Kafka and Spring boot for IAC, handling large volumes of real-time data efficiently.
- Implemented microservices architecture using Docker and Kubernetes, leading to enhanced scalability and fault tolerance.
- Collaborated closely with frontend engineers to integrate frontend components with backend services, ensuring seamless user experiences.
- Engineered micro-components for topics, Producers, Consumers, & Schema registry.

### Platform Engineer

#### Capital Group, Irvine, CA | Jul 2023 – Jun 2024

- Found and resolved security vulnerabilities of microservice applications using Kubernetes scan daily by remediating fixes.
- Worked with cloud engineers in migrating legacy systems to a modern cloud infrastructure, reducing maintenance costs by 20%.
- Implemented CI/CD pipelines with Harness, automating deployment processes and improving release frequency by 50%.
- Tested various services using SOAPUI for and SPLUNK analyzing machine-generated big data.

### Senior System Engineer

#### Infosys, Tamil Nadu, India | Jan 2018 – Jul 2021

- Built and optimized SQL queries and database schemas for a SaaS analytics platform, improving query performance by 40%.
- Integrated third-party APIs for payment gateways and CRM systems, enhancing platform functionality and user engagement.
- Worked as a technical consultant for B2B clients, developing messaging queues using IIB and message brokers.
- The development and maps are done using EDI Trusted Link (TLI) which is electronic data shared between customers and the business product transactions and SAP EDI transaction management.
- Analyzed discrepancies between system-generated data and product mappings, using AS400 for mailbox server monitoring.
- As a B2B EDI project technical support and developer for the leading retail industry.
- Migrated the IBM IID designer application using Jboss Fuse camel middleware application improving throughput ratio and building more logic interpreted data flow design.

## INTERNSHIP

### iOS App Developer | Graduate Teaching Assistant

#### Wichita State, Kansas, USA | Dec 2021 – May 2023

- Worked with PhD students in migrating on-premises map DB to cloud using Heroku. Used SWIFT and Storyboard for the development.
- Devised an assisted map application for people with disabilities under the guidance of Prof. Namboodiri and funding from the National Science Foundation (NSF USA).
- Analyze add-ons in web scripts in test-driven development (TDD) between each flow.

## TECHNICAL SKILLS

### Programming/Database:

- Java, Python, HTML, CSS3
- MySQL, PostgreSQL, MongoDB
- EDIFACT EDI, non-EDI.
- YAML, XML.

### Frameworks & Tools:

- Spring boot, ReactJS.
- Docker, Kubernetes.
- Harness, Rancher
- Splunk, AWS ec2, S3, EBS, Heroku.
- Gitlab, GitHub.
- IntelliJ, VSCode.
- Postman, Swagger UI.
- SOAP UI
- EDI AS400, As400, TLI.

### Middleware:

- Kafka, IBM MQ. Jboss fuse, camel.
- Rest API, SOAP API.
- Electronic data interchange using OpenText.

### Certifications:

- AWS cloud practitioner.
- Oracle Java certified by NIIT.
- Python certified by Infosys.

## EDUCATION

### Master of Science in Computer Science

Wichita State University, Kansas, USA  
| May 2023

### Bachelor of Technology in Computer Science

Amrita Vishwa Vidyapeetham, Tamil Nadu, India | May 2018

## COURSEWORK

- System design
- Data structures and Algorithms
- Agile methodologies
- Distributed systems
- AI and Prompt engineering.
- Product management.
- API design.