

NILAV BHARATKUMAR VAGHASIYA

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SKILLS

Programming Languages:	Java, Python, Kotlin, JavaScript, TypeScript, Dart, HTML
Java Ecosystem:	Spring Framework, Vert.x, JSP, Hibernate, Java I/O
AI & ML:	LLM, RAG, ML models, vector databases; Ollama, LM Studio, LangChain, EmbedChain, MCP Servers (Model Context Protocol), CrewAI, AutoGen
Frameworks & Platforms:	Kubernetes, Docker, Hazelcast, microservices, distributed systems
Web Services & APIs:	REST, RESTful APIs, SOAP
Databases:	Oracle DB, MySQL, MongoDB, Cassandra, Redis, DynamoDB
Messaging & Streaming:	Apache Kafka, ActiveMQ, RabbitMQ
Data & Analytics:	Data pipelines, statistics, algorithms
DevOps & CI/CD:	Jenkins, Apache Maven
Observability:	Splunk, Grafana, Datadog, structured logging, log analysis, custom metrics, shift-left monitoring, distributed tracing
Testing & Performance:	JUnit, Mockito, Karate, Postman, Gatling, automated testing
Security & Code Quality:	Spring Security, mTLS, cryptography, Checkmarx, SonarQube
Cloud Technologies:	AWS (S3, EC2, Lambda), GCP
Core Competencies:	Rapid prototyping, communication, collaborative leadership, decision making

WORK HISTORY

Staff Software Engineer

06/2022 to Current

Visa Inc. – Austin, TX

Promoted from Sr. Software Engineer, May 2026

- **Payments Framework & Service Orchestration (Current Team):** Developing and maintaining features across multiple core services in a distributed system that supports **4.2B+ global transactions annually** with **99.9999% uptime**; instrumented services with **Datadog** for observability.
- Delivered enhancements for **time-sensitive transaction settlement**, supported production systems, and handled critical component ownership including database migrations and I/O optimization.
- Implemented **mTLS-based authorization using cryptography** for internal services exposing **PII data**, and drove **security fixes with a shift-left approach** as part of BAU activities.
- **Processor Team (Previously):** Worked on VPC, PRMS, and ElavonAmericas gateway services, supporting high-throughput transaction and settlement pipelines.
- Built and launched the **Processor Management API**, enabling dynamic configuration updates and reducing onboarding time from **200 days to 20 days**.
- Automated production configuration management for **Visa Platform Connect (VPC) settlement gateways**, reducing manual errors and supporting acquirer migration to the **MAZE settlement engine**, which now handles **~38% of CyberSource's settlement volume**.
- Developed multiple **merchant-specific features** for the **ElavonAmericas gateway**, a major processor integration.
- Notable contribution: enabled **multi-capture transaction amount handling** in the global settlement file to improve downstream processing accuracy.

Software Engineer

11/2021 to 06/2022

Dematic Corp – Remote - Plano, TX

- Developed high-quality code with strong emphasis on testing – designed and maintained automated unit and integration test suites for cloud-based and self-hosted warehousing SaaS products for various clients.
- Contributed to software design and architecture, including design reviews, with focus on database access patterns and high-throughput I/O pipelines.
- Worked on GWT screens with component-based proprietary backend framework 'jCoffee'.

Software Engineer - Java

09/2020 to 11/2021

Tata Consultancy Services – Remote

- Contributed as a Java developer towards the client project by modernizing a legacy monolith application based on Oracle Forms into a distributed system of asynchronous RESTful Microservices using **Spring Boot** and JPA, to be consumed at POS centers.
- Developed CRUD endpoints for more than 20 Oracle forms and built robust, resilient REST endpoints with an average response time of **30 milliseconds**; own database schema migrations and tuning.

EDUCATION

Master of Science: Computer Science

05/2020

The University of Texas at Arlington – Arlington, TX

- **Thesis:** Extractive Summarization and Simplification of Scholarly Literature.
- Awarded **departmental scholarship for academic excellence** and contribution as a researcher.

Bachelor's in Engineering: Information Technology

07/2018

Mumbai University – Mumbai, India

- Published a technical paper in IEEE conference titled "Mobile based trigger system for near ultrasonic sound" with multiple citations.