# Vamsi Krishna Yarragunta

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## EXPERIENCE

**Senior Java Developer –** AT&T (via Pyramid Consulting Inc.), Seattle, WA                    Sep 2024 – June 2025
- Implemented Redis caching with Kafka-triggered refreshes to handle cart pricing updates during high-traffic events, reducing backend load by ~60% and enabling the system to support 4× traffic with zero latency spikes.
- Migrated credential storage from GitHub secrets to Azure Key Vault via Kubernetes dynamic secrets injection, establishing a secure-by-default standard and meeting compliance requirements.
- Developed reusable Map Struct based POJO mappers and versioned interfaces to unify SOAP-to-REST conversions across microservices, reducing redundant code by 70–80% and improving onboarding speed for new API versions by 3–4×.
- Replaced repeated POJO generation in microservices by publishing a shared SOAP artifact to JFrog, cutting build times from 5 minutes to under 30 seconds and improving dependency management across teams.
- Created mocked customer account APIs for Dev/Test environments using toggleable adapters and known IDs, ensuring timely delivery of routing logic with no rework required during production rollout.
- Improved communication visibility by proactively surfacing blockers and status updates in standups, accelerating issue resolution and becoming a key source of updates across the team.

**IT Intern** - Copart Inc, Dallas, TX                    Sep 2023 - Aug 2024
- Developed DMV data microservices using Java and deployed them on Kubernetes with load balancing and auto-scaling, enabling reliable handling of over 200,000 daily API requests.
- Reduced Kafka lag from 2 hours to 30 seconds on DMV data pipeline by increasing consumer concurrency and scaling to 6 threads using a multi-pod architecture.
- Introduced a Strategy and Factory pattern for DMV API clients to accommodate last-minute state-specific spec changes, enabling easy extensibility and timely delivery before go-live.
- Resolved a critical Kafka configuration issue by hot-patching the retention period, adding dead-letter queues and alerting mechanisms to prevent future message loss.

**Software Engineer -** GEP Worldwide, Hyderabad, India                    July 2020-Aug 2022
- Improved contract search speed by 25–40% in the CLM module by analyzing MongoDB query plans and designing compound and text indexes based on access patterns.
- Ensured accessibility compliance for visually impaired users by auditing with NVDA/JAWS and Lighthouse, resolving over 50 WCAG issues and contributing to product recertification and contract renewal.
- Restored broken file upload functionality within 2 hours by identifying MIME type mismatches and implementing a robust MIME cleaning logic on the front end.
- Implemented microservices using **SOLID principles** and optimized MongoDB queries, reducing contract retrieval time by 25%.
- Proposed and developed a vendor-agnostic Signature Adapter microservice with pluggable factory-based architecture, improving modularity and enabling easy integration of new e-signature providers.
- Awarded Best Performer for two consecutive quarters (Q2, Q3) in 2021 for system optimizations and improving efficiency.

## TECHNICAL SKILLS

**Languages:** Java, Python, C, C#, C++, Typescript, SQL, JavaScript, HTML/CSS, C
**Front-End: Bootstrap**, jQuery, ReactJS, Angular, SCSS
**Cloud Platforms:** Microsoft Azure, AWS (EC2, RDS, S3, Lambda, Elastic Load Balancing, Auto Scaling)
**Databases:** MySQL, MariaDB, SQL Server, MongoDB, Redis Cache, PostgreSQL
**DevOps & Automation:** Kubernetes, Docker, Jenkins, Git, GitLab, JIRA, CI/CD pipelines
**Frameworks:** Spring Boot, Hibernate, Kafka, JUnit, ReactJS, Angular, Bootstrap, jQuery
**Project Management Tools:** JIRA, Jenkins, Git, Agile SDLC

## PROJECTS

**Portfolio** | JavaScript
- Designed and deployed a personal portfolio using Vue.js to showcase technical projects, resume, and achievements, enhancing online presence and professional visibility.

**WebRTC** | JavaScript, Node.js
- Built a real-time video-chat application using WebRTC, Node.js signaling server, and vanilla JavaScript—implemented peer-to-peer audio/video streams and chat messaging, deployed with secure ICE/STUN/TURN configurations, showcasing full-stack real-time communication capabilities

## EDUCATION

**Master of Science, Information Technology**                    **May 2024**
The University of Texas at Dallas, TX
**Bachelor of Technology, Information Technology**                    **May 2020**
National Institute of Technology Allahabad, Prayagraj, India