Venkata Vikramaditya Varma Kunaparaju

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Professional Summary

Results-driven Software Development Engineer with 6+ years of industry experience in designing and scaling distributed systems for high-impact, large-scale tier 1 services. Skilled in optimizing real-time workflows and developing AI-powered features, achieving up to 80% reduction in inference latency for AI powered Alexa and 40% improvement in processing efficiency across multi-million–package operations for Amazon. Proficient in AWS architecture, system design, and LLM integration, consistently delivering high-performance, reliable, and customer-centric solutions.

Education

University of Florida   **Gainesville, FL**
Master of Science in Computer Science (GPA 3.86)   *May 2021*

Technical Skills

Languages: Java, Python, JavaScript, Ruby, C++
Frameworks & Libraries: Spring Boot, Vue.js, React, Node.js, Ruby on Rails, RxJava, JUNIT, Selenium
Cloud & Tools: AWS (Lambda, S3, DynamoDB, Athena, ECS, EC2, Bedrock, CloudWatch, SageMaker, EBS), Docker, Git, CI/CD, A/B Testing
Databases: DynamoDB, MySQL, Oracle, Athena
Expertise: Distributed Systems, LLM Integration, System Design, Performance Optimization

Professional Experience

Amazon   **Seattle, WA**
Software Development Engineer II (Oct 2023 – Present) | SDE I (Aug 2021 – Sep 2023)

Alexa AI Orchestration

- **Designed and implemented** key launch features for a Tier-1 orchestration service powering Alexa Plus AI, enabling real-time LLM inference routing to specialized domain experts (Weather, Sports, Music, etc.).
- **Optimized** inference flow architecture, reducing final response latency from **16s to 3s**, improving responsiveness for millions of users.
- **Developed** A/B testing framework for prompts and model configs, accelerating experimentation and safe rollouts.

Selling Partner Services — Paragon CMS

- **Designed and developed** the Issue Summary Widget using Amazon Bedrock + Claude to auto-summarize seller cases reducing average case handling time by **40%**.
- **Built** the LLM Response Generation Widget to auto-draft seller replies; reduced reply time by **50%** and improved customer satisfaction rate and case resolution time.
- **Built** a dynamic Notification Service targeting associates in real-time which cut non-productive associate time by **80%** during peak seasons.

MSP — Amazon Pack App

- **Developed** core services powering the Amazon Pack App in fulfillment centers: box selection, label generation, and automation flows.
- **Optimized** workflows to reduce cycle time and improve packaging accuracy across thousands of daily shipments.
- **Leveraged** AWS Lambda, DynamoDB, and ECS for high-throughput, low-latency packing decisions in multi-million package operations.
- Built an **LLM-powered SmartTTBot** that automatically analyzes logs and metrics during high-severity events and posts actionable insights, reducing root cause analysis time from several minutes to just a few seconds.

Infosys Limited   **Hyderabad, India**
Systems Engineer   *Jun 2017 – Feb 2019*

- **Automated** ETL validation workflows using Java and Spring; reduced manual QA effort by **40%**.
- **Integrated** Kafka to streamline ingestion from Informatica into Oracle, improving throughput and reliability.
- **Optimized** SQL and batch scheduling for large data loads, cutting processing time by **40%**.
- **Collaborated** with cross-functional teams to migrate legacy services to cloud-hosted architecture.