

# VRAJ PATEL

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## CORE SKILLS

- Programming: Python, Java, C++, TypeScript, JavaScript
- AI/ML: Gen AI, LLMs (OpenAI, Azure OpenAI), NLP, Speech-to-Text, TensorFlow, PyTorch, Azure Custom Vision, Form Recognizer
- Cloud: AWS, Azure, GCP
- Distributed Systems: Microservices, Kafka, Docker, Kubernetes, Event-Driven Architectures
- Data: MongoDB, BigQuery, Azure SQL, DynamoDB
- DevOps: CI/CD, GitLab, Docker, Test Automation, Monitoring/Logging
- Other: System Design, Code Reviews, Agile, TDD, Product Management, Effective Communication, Leadership

## WORK EXPERIENCE

AI Software Engineer— CVS Health, Scottsdale, AZ Aug 2023 – Present

- Architected and deployed distributed, containerized microservices for document transformation and speech-to-text, leveraging Gen AI and advanced NLP in Python and cloud-native stacks (Azure, GCP, AWS).
- Built scalable streaming pipelines using Apache Kafka for real-time data ingestion and Google Cloud Storage for persistent, high-throughput file processing.
- Enhanced unstructured data extraction using composite AI/ML models (entity recognition, text classification, LLMs), improving recognition accuracy by 25%.
- Spearheaded the design of high-performance synchronous APIs (Azure Durable Functions) for data extraction, optimizing throughput and reliability.
- Automated CI/CD pipelines and testing frameworks for robust SDLC, reducing manual deployments and errors.
- Mentored junior engineers on distributed system design, code quality, and best practices in Python, cloud infrastructure, and containerization.
- Maintained comprehensive observability with logging, monitoring, and robust error-handling for mission-critical services.
- Reduced client onboarding time from 30 minutes to seconds with a fully automated Python/Docker solution.
- Led migration from relational to NoSQL (MongoDB) for high-throughput, large-scale document processing.

**Software Engineer— Warner Bros Discovery, Seattle, WA Oct 2021 – Jun 2023**

- Led a large-scale content migration project using API Gateway, Terraform, Kubernetes, and AWS Lambda, transitioning over 1 million content IDs to DynamoDB and reducing operational overhead by 25%.
- Orchestrated global partner integrations with Google, Apple, Roku, and Amazon—expanding HBOMax coverage to 21 European countries and contributing to a 15.4% growth with 8 million new users.
- Developed comprehensive Grafana dashboards to provide real-time insights into system performance, enabling proactive incident management and ensuring high platform reliability.
- Enhanced incident response by integrating Splunk VictorOps, streamlining operations and maintaining consistent uptime in the content delivery ecosystem.
- Streamlined CI/CD processes by leading the creation of automated deployment pipelines via GitHub Actions, increasing

production consistency and deployment speed.

- Optimized metadata feed delivery by reducing processing time by 20% using AWS Cognito and S3, thereby improving data flow for global partners.
- Developed event-driven metadata processing for streaming partners, improving data flow efficiency by 20%.
- Designed real-time dashboards with Grafana for global monitoring of production systems supporting millions of users.
- Implemented gRPC server code for resilient, asynchronous data communication in distributed environments.
- Demonstrated cross-platform expertise in both Windows and Linux system administration to ensure robust, high-performance applications.
- Conducted peer code reviews, mentored new team members, and facilitated knowledge-sharing sessions on cloud and microservices best practices.

### **Software Development Engineer— Slalom, Seattle,WA Mar 2021 – Oct 2021**

- Improved distributed analytics pipelines using AWS Lambda, DynamoDB, Kafka, and Elasticsearch, boosting project efficiency and throughput.
- Built automation frameworks and contributed to rapid prototyping, test automation, and SDLC streamlining for product teams.

### **EDUCATION**

Master of Computer Science

Oklahoma Christian University, Jan 2020 – Dec 2020 GPA: 4.0

Master of Computer Science

The University of Texas, Aug 2018 – Dec 2019 GPA: 3.5