

# Roilan Roman

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## Skills

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Java, Python, Javascript, Go, SQL, NoSQL

Airflow, Argo Workflows, Spark, Delta, Snowflake, Kafka, Debezium, dbt, Deequ, Redshift

Amazon Web Services (AWS), Docker, Terraform, Argo CD, Kubernetes

LangChain, LLM, HuggingFace, PyTorch, Tensorflow, Numpy

## Experience

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### Staff Software Engineer (L6)

#### Amazon

Jan 2021 – Feb 2025

- Faced with rising patient bottlenecks across 500+ clinics, led backend development of a (Web) HIPAA-compliant telehealth platform. Integrated video conferencing, EHR (HL7/FHIR), and AI triage bots, intake form processing, and Stripe-based payments resulting in a 35% reduction in appointment wait times.
- Migrated 10+ microservices in event driven architecture and to address data privacy risks and regulatory demands, implemented end-to-end encryption for patient medical records, ensuring full HIPAA compliance and reducing data breach incidents by 90%.
- Tasked with reducing infrastructure costs and improving platform reliability, led the migration to AWS cloud, leveraging Docker and Kubernetes for containerization and auto-scaling, which resulted in 99.9% uptime and a 20% drop in server costs.
- Conducted A/B testing on AI and microservices workflows, refining algorithms and system interactions based on user feedback, boosting service effectiveness, and increasing patient satisfaction
- **Skills: Java, Spring boot, Python, FastAPI, AI/ML, Event Driven(Kafka), Microservices, ECS, EC2, IAM, OAuth, JWT, WebRTC, PostgreSQL, MongoDB, CI/CD pipeline, React, Redux, Javascript, Typescript,**

### Site Reliability Engineer

#### Datadog

Dec 2016 – Dec 2020

- Designed and implemented a large-scale data pipeline processing 10TB+ daily, serving as the core infrastructure for Datadog's monitoring platform, enabling real-time analytics for 10,000+ cloud-scale customers.
- Built a Kafka/Go-based intake-to-storage pipeline supporting 1M+ events/sec, achieving 99.99% uptime through dynamic partitioning, autoscaling, and fault-tolerant design.
- Redesigned Kafka's partitioning strategy from fixed to real-time dynamic sharding, eliminating hotspots and enabling linear scalability (200% throughput improvement) for fluctuating workloads.
- Built a hybrid storage system combining in-memory databases (Redis) for low-latency queries and AWS S3 for long-term retention, reducing storage costs by 40% while maintaining sub-100ms query performance
- **Skills: Kafka, Golang, Redis, AWS S3, EC2, PostgreSQL, NGINX, Elasticsearch, Twilio SendGrid, Kubernetes, Docker**

## PROJECTS

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### LangChain Chatbot | [Github link](#)

Built a full-stack AI chatbot using LangChain, FastAPI, and React with RAG-based architecture for real-time, context-aware responses, containerized with Docker for seamless deployment.

### Personal Telehealth Platform | [Github link](#)

A comprehensive telehealth application designed to facilitate remote patient management, virtual consultations, and intelligent symptom analysis via an integrated chatbot.

## Education

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University of Florida - Bachelor of Computer Science, GPA: 3.8

Gainesville, FL 2016