Ryo Nishikawa

Cloud Support Engineer (DevOps) at AWS

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Professional Summary

Software Engineer with 5+ years building distributed systems and automation platforms using Python (5+ years), SQL, and OOP languages. Expert in API development, microservices architecture, Docker/Kubernetes, and CI/CD pipelines. Proven track record optimizing concurrent systems and infrastructure automation.

Professional Experience

Cloud Support Engineer (DevOps)

2024 - Present

Amazon Web Services (AWS)

Build Python automation tools and provide technical support for AWS distributed systems, specializing in Infrastructure as Code and event-driven architectures.

- Built Kintsugi MCP server using Python OOP (FastAPI/asyncio), integrating with TypeScript/Java systems, reducing troubleshooting time by 45 minutes per case
- Engineered distributed CloudTrail analysis with Python asyncio/multiprocessing and DuckDB SQL queries, processing API failures across multi-region AWS deployments concurrently
- Resolve 20+ monthly technical cases for distributed systems (Lambda, API Gateway), guiding security and performance best practices
- Collaborate on P0/P1 incidents with service teams; author technical documentation and mentor engineers on automation troubleshooting

Technologies: Python, FastAPI, asyncio, multiprocessing, DuckDB, SQL, TypeScript, Java, AWS Lambda, API Gateway, CloudTrail

DevOps Engineer

2023 - 2024

Onside

Engineered and maintained CI/CD infrastructure for biosecurity web portal and mobile applications, ensuring regulatory compliance and high availability.

- Optimized TeamCity pipelines from sequential to parallel execution with resource allocation, reducing deployment time by 40% maintaining 99.9% uptime
- Configured TeamCity agents for multiple concurrent jobs, maximizing infrastructure utilization and improving build throughput for development teams
- Led complete CI/CD migration from TeamCity/Octopus Deploy to GitHub Actions, consolidating processes with zero-downtime deployment strategy

Technologies: TeamCity, GitHub Actions, Octopus Deploy, CI/CD, Infrastructure Management

Software Engineer

2022 - 2023

HealthStream

Built cloud-native data platform with event-driven microservices for healthcare capacity management, processing real-time data streams and feeding SageMaker models for patient forecasting in HIPAA-compliant environment.

- Architected event-driven data pipeline using Python/Amazon MSK (Kafka), integrating Lambda microservices with SQS for reliable message delivery
- Built distributed data processing system storing events in S3/MongoDB, triggering Lambda functions for real-time analytics handling 100K+ daily events
- Developed Python APIs with authentication, rate limiting, and error handling for data ingestion/retrieval, ensuring HIPAA compliance
- Engineered automated CI/CD pipelines using Infrastructure as Code (Pulumi, Terraform), implementing comprehensive testing and deployment automation

Technologies: Python, Amazon MSK, Kafka, Lambda, SQS, S3, MongoDB, Pulumi, Terraform, HIPAA

Junior Software Engineer

2021 - 2022

Wyma Solutions

Developed IoT monitoring platform and computer vision applications for industrial automation, building backend APIs and real-time data pipelines for agricultural machinery.

- Built RESTful APIs using Flask/Django/FastAPI connecting carrot cutter GUI to industrial machinery, implementing authentication, rate limiting, and error handling
- Engineered real-time data pipeline collecting PLC metrics from industrial machinery, streaming to TimescaleDB/InfluxDB via Telegraf for SQL-based time-series analysis