

# Ryo Nishikawa

Cloud Support Engineer (DevOps) at AWS

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**DevOps Engineer | Cloud Infrastructure Specialist** with 4+ years of experience in cloud automation, Infrastructure as Code (IaC), and continuous integration/continuous deployment (CI/CD). AWS Subject Matter Expert (SME) in AWS CloudFormation. Proven track record optimizing deployment pipelines, implementing zero-downtime deployments. Expert in Python, Terraform, Docker with strong focus on security, reliability, and operational excellence.

## Work Experience

### Cloud Support Engineer (DevOps)

2024 - Present

Amazon Web Services (AWS)

Provide expert technical support for AWS DevOps services, specializing in Infrastructure as Code (IaC) and continuous deployment solutions for Fortune 500 enterprises.

- Resolve 20+ technical support cases monthly across all severity levels, with 80% specialization in AWS CloudFormation, AWS CDK, Elastic Beanstalk, Control Tower, CodeSeries, and Amazon Q Developer
- Guide AWS best practices for enterprise customers, improving security posture, fault tolerance, system performance, and reducing operational costs
- Develop Model Context Protocol (MCP) Servers using Python to automate our internal tools to work on cases. CloudFormation and CodePipeline troubleshooting, reducing 45mins of the engineer time globally
- Collaborate with Technical Account Managers (TAMs), Professional Services, and Solution Architects on high-priority escalations; participate in on-call rotation for P1 P0 incidents
- Mentor Cloud Support Engineers on AWS DevOps services; author internal knowledge base articles and technical documentation

### DevOps Engineer

2023 - 2024

Onside

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

- Orchestrated complete CI/CD migration from TeamCity and Octopus Deploy to Azure Pipelines, consolidating build and deployment processes
- Architected zero-downtime deployment strategy using Azure App Service with high availability configuration, ensuring 99.9% uptime

### Software Engineer

2022 - 2023

HealthStream

Built and maintained cloud-native data platform for healthcare capacity management, ensuring HIPAA compliance.

- Engineered automated CI/CD pipelines using IaC with Pulumi and Terraform on Azure DevOps, implementing comprehensive automated testing for HIPAA compliance
- Architected cloud-based event-driven streaming pipeline processing real-time data into AWS S3, MongoDB, and Lambda, integrating with Amazon MSK and SageMaker

### Junior Software Engineer

2021 - 2022

Wyma Solutions

Developed IoT monitoring solutions and computer vision applications for industrial automation in agricultural technology sector.

- Developed Python-based IoT data collection system to stream PLC data to Oracle Cloud InfluxDB via Telegraf for real-time industrial monitoring
- Deployed Grafana dashboards on Oracle Cloud using Docker for real-time data visualization
- Built computer vision application using OpenCV2 and Python to automate quality control processes
- Automated environment provisioning using Ansible playbooks across multiple production nodes

## Technical Skills

### Cloud Platforms & Services

AWS (CloudFormation, CDK, CodePipeline, Lambda, S3, EC2, Control Tower), Azure (DevOps, Pipelines, App Service)

### DevOps & IaC

Terraform, Pulumi, AWS CloudFormation, AWS CDK, Azure and gitlab CI/CD pipelines, Docker, Ansible

### Programming

Python, JavaScript, Java, Node.js, C, Vue.js, Flask

### Databases & Streaming

PostgreSQL, MySQL, MongoDB, InfluxDB, DuckDB, Amazon MSK (Kafka)

## Education

### BSc in Computer Science

University of Canterbury  
2018 - 2020

## Awards

### Most Valuable Player Award

AWS Support Engineering

### Rising Star Award

AWS Support Engineering

### CloudFormation SME

AWS Support Engineering

### 2nd Place - HackChch

48 Hour Smart City Hackathon

## Content

### [AWS Knowledge Center Video](#)

Resolving "Already Exists" Error in AWS CDK

## Languages

English (Fluent)

Japanese (Native)

**Interests**

Rugby & Sports  
Powerlifting/Crossfit  
Neovim