Ruby Kim

Cloud Engineer

dev.rubykim@gmail.com
Seoul, South Korea
https://dev-rubykim.vercel.app/

Technical Skills

Languages
Python3, C, C++, C#, HTML, CSS, JavaScript

Cloud & Infrastructure
Docker, Kubernetes, AWS, GCP, Azure, NCP, Terraform

Databases
MySQL, MongoDB, Redis, PostgreSQL, AWS DynamoDB, Turso

Frontend Libraries / Frameworks
React.js, Next.js, Vue.js, Astro

Backend Libraries / Frameworks
Flask, Django, FastAPI, Express.js

AI / LLM
Gemini, OpenAI, Prompt Engineering, Claude, RAG Pipeline, Grok

Profiles

LinkedIn
Ruby Kim

Github
ruby-kim

Education

Sejong University
Bachelor of Software • 3.5 / 4.5
Mar 2017 - Feb 2022

Certifications

Professional Cloud Architect Certification
May 2025
Google
Credential ID:
4b0c2a11b47041cfbc0f0bea5f33a29b

AWS Certified Cloud Practitioner
Sep 2024
Amazon Web Services (AWS)
Credential ID:
e0f4ecdb69f64249a2dac97ab5daf721

Languages

Korean
Native

Summary

Cloud Engineer II specializing in FDA-compliant Serverless architectures. Proven expertise in Zero-Trust mTLS security and global network optimization for clinical telemetry. Skilled in automating large-scale infrastructure via Terraform and AWS SAM to support global clinical trials.

Work Experience

Sibel Health — Chicago, USA (remote in Seoul, South Korea)
Cloud Engineer II — Aug 2021 - Present

Global Clinical Data Infrastructure (Discovery Hub)

- Cloud-Native Serverless: Built high-availability AWS Lambda environment, achieving 100% data integrity for high-volume telemetry via SQS.
- Global Expansion: Orchestrated multi-region deployments (US, EU, APAC) via CloudFormation, reducing expansion time by 70%.
- System Scalability: Modularized core business logic into shared Lambda Layers, eliminating code redundancy across the ecosystem.

FDA-Cleared Vital Telemetry Platform (Anne Hub)

- Zero-Trust Security: Hardened MQTT infrastructure using mTLS and TLS rotation, meeting FDA 510(k) security guidelines.
- Network Optimization: Reduced E2E latency by 150ms+ by deploying AWS Global Accelerator for global medical gateways.
- Concurrency Engineering: Resolved gateway bottlenecks by architecting an asynchronous backpressure mechanism using Python asyncio.

Engineering Automation & Tooling

- Deterministic DevOps: Standardized Docker build pipelines for AWS Lambda to ensure binary compatibility for C-extension libraries.
- Infrastructure Automation: Authored a Python (Boto3) CLI for automated provisioning, reducing setup time by 90% with 0% error rate.
- Observability: Integrated CloudWatch and X-Ray to visualize serverless traffic flows and reduce Mean Time to Detection (MTTD).

Solugate — Seoul, South Korea
Research Assistant — Mar 2020 - Jun 2020
Developed a custom spelling correction model for Voice Of Customer (VOC) data and implemented an STT (Speech-To-Text) accuracy enhancement program.

Technical Projects

Technical Leadership & Infrastructure Demos — Feb 2025 – Present
Lead Architect

- Zero-Cost Ecosystem Design: Designed and deployed a production-ready full-stack environment utilizing AWS Lambda, Vercel, and Turso (Edge SQLite), achieving high availability with zero recurring operational costs.
- Comparative Framework Architecting: Developed side-by-side performance demos for FastAPI (Async) and Flask (WSGI) to evaluate architectural trade-offs in serverless environments.
- Real-time Data Sync: Implemented a WebSocket-based stock simulation on FastAPI to demonstrate low-latency, state-synchronized data streaming on stateless cloud platforms.

PressCheck: Deep Learning-Based News Intelligence — Sep 2020 – Nov 2020
Technical Lead

- Hybrid NLP Pipeline: Architected a system integrating KoBERT and FastText to deliver automated semantic similarity and extractive summarization.
- Automated Data Ingestion: Engineered a resilient BeautifulSoup4 scraper processing news hourly to maintain a 24/7 real-time analytics database.
- End-to-End Integration: Managed full-stack deployment of ML models into a React/Express dashboard, ensuring seamless data flow from scraper to UI.

English
Full Professional Proficiency