Jinsoo Heo

DevOps Engineer

dev.koriel@gmail.com · +82 10-8975-9546 · Seoul, KR · koriel.kr
github.com/devkoriel | linkedin.com/in/devkoriel | x.com/devkoriel

---

DevOps Engineer with 8+ years of experience building and operating production infrastructure at scale. Specialized in Kubernetes, GitOps, observability, network security, and eBPF. Currently building Web3 oracle infrastructure for DeFi protocols. Previously secured gaming infrastructure handling 10M+ concurrent users at PUBG and operated marketplace platform infrastructure at Karrot.

TECHNICAL SKILLS

Container Orchestration: Kubernetes, EKS, kOps, Helm, ArgoCD

Infrastructure as Code: Terraform, Helm Charts, IPFS Config Management

Observability: Grafana, Mimir, Loki, Alloy, Datadog, Prometheus, ELK

Networking & Security: Istio, eBPF/XDP, HAProxy, Kong, AWS WAF

CI/CD: GitHub Actions, Jenkins, ArgoCD, GitOps

Cloud: AWS (EKS, ECS, Lambda, VPC, MSK), Docker

Languages: Go, Python, Lua, C++, Bash, HCL

PROFESSIONAL EXPERIENCE

DevOps Engineer · Chronicle Labs
Jan 2026 – Present

Web3 oracle infrastructure for DeFi protocols.

- Build and operate Kubernetes-based oracle infrastructure on AWS EKS, managing the full lifecycle of oracle services through an ArgoCD GitOps app-of-apps pattern
- Design and maintain the observability platform (Grafana, Mimir, Loki, Alloy) with cost-efficient metrics ingestion and actionable alerting for oracle liveness and data freshness
- Drive infrastructure-as-code practices with Helm charts, Terraform, and IPFS-based immutable configuration management
- Lead incident response and on-call for Sev0/Sev1 oracle incidents where downtime directly impacts DeFi protocol solvency

DevOps Engineer · Dunamu (Upbit)
Oct 2023 – Oct 2025

South Korea's largest cryptocurrency exchange.

- Managed Kubernetes clusters on AWS (EKS and kOps) serving South Korea's largest crypto exchange
- Enforced end-to-end network security using Istio service mesh across all production services
- Maintained and extended Upbit OpenAPI Gateway (Kong) with custom Lua plugins
- Designed AWS cloud network architecture and implemented with Terraform
- Built SLA/SLO/SLI dashboards with Datadog, Grafana, and Terraform for platform-wide reliability tracking
- Enhanced monitoring and observability using Linux eBPF for deep network-level insights
- Developed internal DevOps and SRE tooling in Go and Python

Site Reliability Engineer · Karrot (Danggeun Market)
Jun 2022 – Oct 2023

South Korea's leading local marketplace platform.

- Stabilized network and Kubernetes clusters as part of the SRE Cluster team
- Operated HAProxy fleet with bot and abuser detection at the edge
- Built log and metrics delivery pipelines with Grafana dashboards
- Maintained Istio service mesh and optimized Kubernetes network performance
- Automated FinOps workflows for infrastructure cost visibility and reduction

Lead of Network Security Part → DevSecOps Engineer · PUBG Corporation   Oct 2020 – Jun 2022

PUBG: NEW STATE — infrastructure security and operations for a global mobile game.

- Promoted to Lead of Network Security Part, directing infrastructure defense strategy for PUBG: NEW STATE
- Developed eBPF programs (XDP ingress + TC egress) to protect infrastructure from DDoS attacks
- Load-tested and tuned network infrastructure for 10,000,000+ concurrent users
- Configured Kubernetes HPA with Prometheus Adapter for custom-metrics-based autoscaling
- Architected microservices environment using AWS EKS, Kubernetes, Terraform, and Helm
- Implemented GitOps CI/CD pipeline with Jenkins (CI) and ArgoCD (CD)

DevOps Engineer · Angelswing   Nov 2019 – Oct 2020

Drone mapping and digital twin platform.

- Containerized Ruby on Rails, Node.js, and Python applications and deployed to AWS ECS (Fargate/EC2)
- Implemented zero-downtime deployment strategies (blue-green and rolling update)
- Hardened security posture with AWS WAF, ELB firewall policies, and CIS Benchmark compliance
- Deployed ELK stack and Elastic APM for full-stack observability
- Designed AWS VPC architecture with strict public/private subnet separation
- Provisioned MSK (Managed Kafka) for microservice event-driven communication

DevOps Technical Lead · LUXROBO   Dec 2018 – Nov 2019

Educational robotics company (MODI modular robot).

- Established infrastructure monitoring with Docker and NetData
- Designed software architecture and managed code reviews via GitLab MR + Jenkins
- Built CI/CD pipelines for Linux, macOS, Windows, Android, iOS, and Python apps using Jenkins
- Created application download server using AWS Lambda and API Gateway
- Migrated C++ build system to CMake, achieving 10x improvement in build time and binary size

SW Dev. Team Manager · LUXROBO   Jul 2017 – Dec 2018

- Managed software development team — Electron and C++ application design
- Operated 3 Kanban projects
- Refactored and bug-fixed C++ daemon process, deployed LTS release

Software Engineer · LUXROBO   Apr 2017 – Jul 2017

- Built JIRA and Confluence on in-house servers
- Developed 'MODI Studio Daemon' C++ application with C++11 and Boost
- Developed 'MODI Manager' iOS application with Swift 3 and BLE

EDUCATION

Yonsei University · Bachelor's degree in Physics   Mar 2013 – Aug 2019

Korea Digital Media High School · Hacking Defense   Mar 2010 – Feb 2013

PUBLICATIONS

- Cloud or Dare — Microsoftware Issue 394 | Microsoftware | 2019

AWARDS

- Korea Robot Aircraft Competition | Ministry of Land, Infrastructure and Transport | 2012

LANGUAGES

English (Native or Bilingual), Korean (Native or Bilingual)