# Jihwan Ryu

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## Applying Position

Cloud Engineer

## Education

Bachelor of Engineering in Computer Science
Pusan National University, Busan, South Korea, August 2023

## Professional Summary

Dedicated Cloud Engineer with expertise in cloud infrastructure design, microservices architecture (MSA), and AWS deployment using DevOps practices. Strong foundation in backend development and cloud-native solutions, with a passion for applying new technologies to solve real-world challenges. Proven C++ skills with an A+ in a specialized course, including hands-on experience in modern C++ features like mutex and unique lock, emphasizing resource management in concurrent programming. Eager to contribute to Rakuten's PaaS and Cloud Infrastructure, leveraging my skills to drive innovation and growth in cloud technologies.

## Technical Skills

- **Cloud Platform**: AWS
- **Language**: C++, Java, Solidity, JavaScript, Python3
- **DevOps**: Docker, Github Actions, AWS CodeDeploy, AWS S3, NGINX
- **Framework(Server)**: Spring, FastAPI, Truffle
- **etc**: Swagger, Markdown, DirectX11, Unreal Engine

## Certifications & Training

**KakaoTech Bootcamp**
Kakao, June 2024 – Present
- Completed a comprehensive training program at Kakao, focusing on backend development, microservices, and cloud infrastructure.
- Gained hands-on experience with DevOps tools such as Docker, NGINX, and AWS services, enhancing skills in cloud-native deployment.
**OPIc IH (Intermediate High)**
ACTFL (American Council on the Teaching of Foreign Languages), 2024
- Achieved Intermediate High level, showcasing the ability to handle a broad range of work-related conversations in English.

## Projects

### Dream - AI-based Story and Image Generation Service

**Role**: Cloud Developer(DevOps)
**Duration**: September 2024
**GitHub**: https://github.com/KakaoTech-Hackathon-Dream
**Youtube**: https://www.youtube.com/watch?v=osfrC2cH62U
**Description**:
Developed an AI-powered application that generates stories and images based on unfulfilled dreams of the elderly. Utilized generative AI models such as LLM, RAG, and LangChain to create personalized content, aiming to inspire users with educational programs and job recommendations.
**Key Responsibilities**:
Architected server infrastructure and implemented CI/CD pipelines using AWS CodeDeploy, AWS S3, GitHub Actions and Docker.
Customized NGINX for reverse proxy and API routing to enhance security and performance.
Deployed AI models to minimize hallucinations using ElasticSearch and LangChain for context-aware storytelling.
Managed DevOps tasks, including network configurations and container orchestration to ensure robust and secure backend operations.

### Harpsharp - Cloud Native MSA-based Task Management Platform

**Role**: Backend & Cloud Developer
**Duration**: July 2024 – September 2024
**GitHub**: https://github.com/2024KBC10/HarpSharp_SERVER
**Youtube**: https://www.youtube.com/watch?v=asTGkZcJ5AM
**Description**:
Developed a microservices-based web platform featuring user management, task boards, and an AI chatbot.
The project emphasized scalable architecture and efficient CI/CD processes.
**Key Responsibilities**:
Designed and deployed multi-domain backend servers (Auth, Board, Todo, AI) using Spring Boot and AWS services.
Established a CI/CD pipeline with GitHub Actions, S3, and AWS CodeDeploy for seamless deployment EC2 instances.
Integrated NGINX as a reverse proxy to handle API routing and SSL certificate automation, improving application security.
Resolved cross-domain issues and optimized backend performance by restructuring server architecture and implementing Redis for authorization token(JWT, Refresh Token) management.

**Ethereum-based Fisheries Auction Platform**

**Role**: Backend Developer
**Duration**: March 2022 – August 2022
**GitHub**: https://github.com/mng990/ethereum_FisheriesMarket
**Description**:
Built a blockchain-based auction platform using Ethereum smart contracts and ERC-1155 tokens. The platform tokenizes auction information as NFTs, facilitating decentralized and transparent auctions for fisheries.

**Key Responsibilities**:
Developed and deployed smart contracts using Solidity, managing auction data through ERC-1155 token standards.
Set up Ethereum nodes with Geth and Ganache, creating a local blockchain network for testing and development.
Integrated IPFS for decentralized storage of auction-related media and metadata, enhancing data integrity and accessibility.
Documented key insights on blockchain technology, contributing to knowledge sharing within the developer community through blogs and technical posts.

## Languages

- Korean (Native)
- English