

# Youjeong Park

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## SKILLS

Java | Python | JavaScript | TypeScript | SQL | React.js | .NET | Spring boot | JUnit | MySQL | Oracle Database | Scikit-learn  
AWS | Git | Github Actions | Jenkins | Linux | Windows | Docker | Terraform | Backend | Frontend | Fullstack | DevOps

## EXPERIENCES

YJMood (Vancouver, BC, Canada) 03/2024 - Present

### Senior Software Engineer (Contract Full-time)

- Managed projects from planning to deployment, ensuring meeting deadline and customer satisfaction
- Mentored junior team members and conducted code and document reviews to ensure quality and consistency
- Achieved a 20% cost reduction by changing monolithic server for files to AWS S3
- Developed microservices architecture(MSA) environments using AWS ECS with AWS Fargate and Terraform
- Designed, developed and maintained e-commerce web application using Java Spring Boot and AWS MySQL RDS, resulting in a 20% boost in user engagement

LG CNS (Seoul, South Korea) 07/2020 - 02/2024 (3 yr 8 mo)

### Software Engineer (Permanent Full-time)

#### Project 1 - Real-time Logistics Visualization Project

- Led a team of 4 developers to successfully complete a system to enhance problem-solving and efficiency within logistics operations using Java, leading to a 25% reduction in delivery times
- Applied a Pub-Sub model using AWS SNS and AWS SQS for queuing and event processing to gather real-time data
- Integrated Elastic Search to enable search capabilities and real-time analytics, enhancing efficiency
- Implemented video calling feature using WebRTC and multi-party messaging system with WebSocket, including real-time translation features
- Developed Spring Boot with MyBatis and AWS RDS to enhance database interaction efficiency, resulting in a 20% improvement in query performance
- Built REST APIs and conducted unit and integration testing with JUnit, reducing bug occurrences by 30%
- Enhanced system stability by implementing load balancing to effectively distribute traffic

#### Project 2 - Constructing System for Pharmaceutical Manufacturing

- Implemented Module Federation in React.js to provide independent systems, allowing flexible adaptation to various pharmaceutical manufacturing processes with front-end components styled using HTML, CSS and Typescript, reducing integration time by 35%
- Refactored APIs following MVC architecture using .NET and AWS RDS, improving system reliability by 30%
- Implemented CI/CD pipeline for automated deployment process using Jenkins and AWS EC2
- Developed graph and chart visualizations using Chart.js for statistical data representation

## PORTFOLIO

Meme Museum - Team Project ([meme-log.netlify.app](https://meme-log.netlify.app)) 11/2023

- A website where you can search for and explore Korean memes using React.js, Vite and TypeScript

An AI-based program developed to assess the reliability of reactor pressure vessel 09/2018 - 08/2020

- Website program developed a web-based application using Django, integrating AI capabilities for analyzing seismic loads using Python on nuclear pressure vessels

## EDUCATIONS

Master of Artificial Intelligence 09/2018 - 08/2020  
Sungkyunkwan University, Suwon, South Korea

Bachelor of Mechanical Engineering 03/2013 - 02/2018  
Kyungpook National University, Daegu, South Korea

## PUBLICATION

A stress intensity predictive model for reactor pressure vessel via coupled signal processing and machine learning model, *Journal of Mechanical Science and Technology* 06/2023

- Proposing a stress intensity regression model using signal extraction and machine learning techniques to enhance nuclear power plant safety and prevent radiation leakage accidents.
- [link.springer.com/article/10.1007/s12206-023-0514-6](https://link.springer.com/article/10.1007/s12206-023-0514-6)

## ACHIEVEMENTS

Excellence Award in Data Analysis Jinju, South Korea,12/2019  
Excellence Medal at Engineering Poster Competition Jeonju, South Korea,04/2017