Sukkwon On

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Experience

DEVOPS ENGINEER | 05/2022 - Current

Alcumus - Toronto, ON

- Implemented Terraform code to automatically create Azure Devops resources.
- Used Power Automate to Run Terraform code through Microsoft Teams messages.
- Create and manage Azure Devops Pipeline and Variable Groups.
- Debug Helm chart for company's private K8S cluster.

SOFTWARE ENGINEER | 06/2021 - 11/2021

HITS - Seoul, South Korea

Website: www.hits.ai

- Built CI/CD Pipeline using GitHub Action(CI) and AWS Code Deploy(CD) to improve work efficiency.
- Implemented backend server using Django.
- Created employers' AWS IAM User management tool with Terraform (IaC) to manage new employers access right on AWS easily.
- Developed API test code and customize test commands by overriding Django's BaseCommand class to test the latest code automatically to keep code bug-free.

Projects

Microservice Delivery Application (Django, Flask, Docker, RabbitMQ) - Personal

Nov 2021 - Dec 2021

- *Implemented 2 separate containers and each of them are connected to its own mysql database.*
- *Used Docker to create containers.*
- Created Internal API call between 2 container.
- Used RabbitMQ to synchronize databases in order to show same information to users from 2 containers.

Bitcoin Auto Trading System using Python - Personal

Jan 2021 - May 2021

- Developed backtest System to test Buy-Sell Algorithm.
- Set Websockets to retrieve live price of each cryptocurrencies.
- Saved all buy-sell data into Redis for the future use. (4290 transactions until 2022, Feb 8th)
- Calculated indicators, moving average every 5 minutes to decide whether to buy or sell.

Vancouver Room Rent IOS App - Team(9 people)

Jan 2020 - Dec 2020

- *Led a team composed of 3 developers, 3 designers, 3 marketers to innovate Room Rent app in Vancouver.*
- Used Swift SDK to automatically calculate distance from house to user's workplace or school to improve user experience.
- Created compare function to see difference between two houses in one page.
- Used OAuth 2.0 Protocol for Log-in system and used Firestore as database.

Starcraft - (Team project with Senior Developer)

Jun 2019 - Dec 2019

- Developed a sprite system Starcraft using Java
- Implemented collision detection using box collider, circle collider, and convex hull algorithm to detect whether the characters has collided with trees or rocks
- Designed Minimap system to improve user experience
- Put animation for more vivid graphics

RPG Game - Team(with Senior Developer)

Jan 2019 - May 2019

- Developed a text-based RPG game with C++
- Designed Unit test cases for error detection
- Implemented A* algorithm to make monsters to chase the main character
- Saved the main character's behavior into text format for statistics

Skills

- **Web Framework**: Django, Flask
- **Language**: Python, Java, C++, Swift, JavaScript
- **AWS**: DynamoDB, S3, RDS, IAM, EC2
- **Database**: MySQL, DynamoDB, Redis
- **CI/CD**: Github Action, AWS CodeDeploy
- **IaC**: Terraform
- **Container**: Docker

Education and Training

Simon Fraser University - Burnaby, BC | Bachelor of Science

Computer Science, Expected in 08/2023

Websites

Github

- https://github.com/skwon2345

LinkedIn

- https://www.linkedin.com/in/sukkwon-on-b99147112/