Hojin Nam

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EDUCATION

- Cal State University East-bay, Hayward, CA   M.S. in Computer Science   Jan 2019 - May 2021

Coursework: Data Structures & Algorithms, Computer Networks, Operating Systems Design, Web Systems, Cybersecurity, Parallel Computing, Machine Learning, Software System Design

- Samsung Multicampus, Seoul, South Korea   [NCS] Android Developer Course   May 2016 - Nov 2016
- Sejong University, Seoul, South Korea   B.S in Electrical Engineering   Mar 2009 - Aug 2015

EXPERIENCE

GSCMS Inc, Seoul, South Korea   **Software Engineer**   **Feb 2017 - Dec 2018**

- Launch task automation with team members on Windows server. The service reduced the time for the laborious task in the accounting department, which manually fetched bank statements of various online banking services, from a few hours to a second, and released them to production

- Engineer the test automation environment in various Operating Systems on VMware for operational acceptance and regression testing in an exploratory approach. The corner, critical, and custom cases by analyzing error logs and defects from the beta users are considered. It cut off the error rate from 5% to 0.0001% (errors/total)

- Write/review/debug new UIs, modify legacy functions and query statements and collaborate with partner teams for the integration. Documented the creation and modification of development and maintenance

[Stack: JavaScript, C#, .NET, MySQL, Oracle SQL, Windows server, VMware, Git, Trello]

PROJECT

Polls web app
- Implement a web app that shows polls, allows users to vote, and an admin page to manage the polls
- Create the automated testing separating TestClass for each model or view and test method for specific conditions
- Package the polls app with PyPI and setuptools that allows the app to be installable for the reusability
- Dockerize/publish image to AWS Elastic Container Registry, deploy to AWS Elastic Beanstalk [Python, Django]

Covid Case Tracker
- Implement a covid case tracker that pulls the number of new cases all over the world every day from CDC website
- Run .py code on AWS Lambda which extract the meaningful data and stored into Amazon Simple Storage Service
- Set AWS Cloudwatch once the numbers increase significantly for a certain country [Python, AWS]

Microservices With Spring Cloud Netflix
- Create Spring Boot applications for a service registry called Eureka server and two web services
- Program JPA based repositories, web controller, and RestTemplate that allows each service to communicate with their hostname and enables load-balancing using Ribbon [Java, Spring Boot]

CUDA programming with shared memory
- Optimize the use of memory between threads on parallel computing to maximize the bandwidth. It avoids redundant transfers by loading and storing data in a coalesced pattern to shared memory from global memory [C++]

Blog website
- Build a website with an RESTful APIs, login system, and role-based authorization using session cookies
- Coordinate with team members to complete it in time and leverage Express framework [JavaScript, React.js, Node.js]

Concurrent execution
- Multi-threading, Multi-processing / semaphore on Ubuntu / Parallel computing on the computer cluster

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SKILL

PROFICIENT: **Python, MySQL, Git** | FAMILIAR: Django, Docker**,** Java, Spring, Gradle, C#, .NET, JavaScript, Node.js, React, VMware | AWS: **AWS certificate**, ECR, ECS, EB, Lambda, S3, RDS(Postgres), DynamoDB