HyukJoo Kwon

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Education

University at Buffalo (SUNY)   Buffalo, NY
Bachelor of Science, Computer Science. 3.47/4.00   May 2022
Relevant Coursework: Data Structure, Algo. and Complexity, Web application, Software Engineering

Experience

Psomagen   Rockville, MD
Bioinformatics Software Engineer   August 2022 - Present
- Developed an automated deliverable system on grid computing system to reduce data delivery time by 9 hrs.
- Upgraded AWS file transferring method to log accurate upload progress and result.
- Programmed a fluidigm sample swap match script to detect and locate switched samples.
- Analyzed data QC, ran analysis pipelines, and delivered results to clients daily.

Metric Studio   Seoul, South Korea
Software Engineer   May 2021 – August 2021
- Created a daily updatable sitemap module for a site with over 8 million detailed pages.
- Accelerated daily google indexation from 1,000 to over 1.5 million pages.
- Reduced automated sitemap process time from 4.5 hours to 2.5 hours.
- Implemented live time image resizing and conversion to reduce file size by 1/30.
- Developed an automated data ingestion/cleansing pipeline using data from 5 different marketing analytic platforms.

Projects

Personal Blog   June 2022
- Built a web application using MERN (Mongodb, Express, React, Nodejs) stack.

UB Marketplace   March 2021
- A community marketplace where college students can buy/sell various items.
- Created with a team of 5 for Software Engineering (CSE442).
- Responsible for front end part of home/listing/detailed/profile/login pages.

Hopon   March 2021
- An android application which is currently available on google playstore.
- Utilized Naver Map API/ Seoul Transportation API to present accurate ETAs.
- 0.5 seconds faster loading time to display all transportations' ETAs than most used map app in Korea.

Routplanner   October 2020
- A full stack web application to display and save jogging routes.
- Developed with a team of 2 for Hackathon (UBHacking2020).

Additional

Republic of Korea Army   Paju, South Korea
Sergeant: Squad Leader   September 2018 – April 2020
- Awarded a commander's commendation by the 1st division commander.
- Provided administrative coordination, including records filing, correspondence management, and document collection for $580k government program.

Skills

Language: Python, Java, Bash, Scala, C, React, Nodejs
Technical: SGE, Linux, Docker, Spark, AWS EMR, ECR, Lambda, CloudWatch, S3, MongoDB, GSC, Airflow