

SANGJUN SON

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INTRODUCTION

Site Reliability Engineer at Moloco with a background in B.S. degrees in Computer Science and Entrepreneurship as an interdisciplinary major from Seoul National University. Adept in engineering (Backend & DevOps) and business development, with a keen interest in exploring emerging technologies and actively engaging in discussions with others.

WORKING EXPERIENCES

Site Reliability Engineer, *MOLOCO, Engineering*

Jul. 2022 - Now

- Achieved an 80% decrease in Docker image vulnerabilities, a 94% reduction in misconfigurations, and zero instances of secret exposures through Datadog monitoring, while significantly enhancing deployment speed with 5.2 times lighter images, leading to a 4.96x reduction in pod pulling time; additionally, successfully migrated to Google Artifact Registry (GAR) for all microservices, resulting in a 74.62% reduction in GCS network egress fees and faster rollout/rollback times.
- Implemented canary deployment with Load Balancing, Datadog composite monitor for proactive issue detection, Helm manifests for resource allocation, and separated deployment pipelines in Harness to achieve over 99.99% service uptime and enhanced user engagement through Slack notifications.

Engineer Intern, *NFTBank, Backend Team*

Dec. 2021 - Feb. 2022

- Designed and developed Scholar Resume, a single-page application for Axie Infinity scholarship applicants, featuring a comprehensive display of scholars' game career, including ranks, MMR, and earned SLP history.
- Integrated an automated payout service enabling scholarship managers to efficiently distribute earned SLP rewards to players within each scholarship program.

Google Software Engineering Intern, *Google Korea LLC., Desktop Search Team*

Jun. 2021 - Sep. 2021

- Automatic I2F and nesting config generation for hOSRP to diOSRP conversion: Designed an internal tool for efficient development in OSRP migration.

PUBLICATIONS

“**DAO-CP: Data-adaptive online CP decomposition**,” *PLOS ONE* 2022,

Sangjun Son*, Yongchan Park*, Minyong Cho, and U Kang,

(* Both authors contributed equally to this work)

“**Gtensor: Fast and Accurate Tensor Analysis System using GPUs**,” *CIKM* 2020,

29th ACM International Conference on Information and Knowledge Management, Virtual Event, Ireland,

Dawon Ahn, **Sangjun Son**, and U Kang

EDUCATION

Seoul National University, *Seoul, Republic of Korea*

Mar. 2016 - Aug. 2022

B.S. in Computer Science and Engineering

Interdisciplinary Major in Entrepreneurship

Daegu Science High School, *Daegu, Republic of Korea*

Mar. 2013 - Feb. 2016

High School Diploma, Natural Sciences

RESEARCH EXPERIENCES

Data Mining Laboratory, *Seoul National University*

Nov. 2019 - Feb. 2021

Undergraduate Research Internship (Advisor: Prof. U Kang)

- **BIGtensor (Gtensor)**: Accelerated large-scale tensor analysis on heterogeneous systems by developing and releasing Tensor mining packages, utilizing GPU and Hadoop computation for efficient processing of large-scale tensor data.
- **DAO-CP**: Enhanced accuracy for CP decomposition of time-evolving tensors by a data-adaptive algorithm.

Real-Time Ubiquitous Systems Laboratory, *Seoul National University*
Undergraduate Research Internship (Advisor: Prof. Chang-Gun Lee)

Jul. 2017 - Feb. 2018

- **Drone Transfer Simulator**: Implemented simulation to study effects of AED delivery using unmanned vehicle transport technology on defibrillation in out-of-hospital cardiac arrest.

TEACHING EXPERIENCES

International Students Integrated Peer Tutoring Program, *Undergraduate Student Tutor* Spring. 2021
Data Structures & Algorithm Fundamentals, SNU Gwanak Residence Halls

Digital Computer Concept and Practice, *Lab Class Lecturer* Fall. 2020
Introduction to Python and Its Application, Dept. of Computer Science and Engineering

Basic Calculus 1, *Undergraduate Student Tutor* Spring. 2020
TA Office of the Department of Mathematical Sciences

SOFTWARE and PROJECTS

LinkedArt, *College of Art Exhibition Archive Platform* Spring. 2022
Created an artwork sales channel between buyers and artists and provided a networking community of college of art undergraduate/graduate students to build their careers.
Operated Next.js and NestJS for front-end and back-end frameworks with PostgreSQL DB as a full-stack engineer.
Built an automated deployment pipeline via Vercel and Heroku cloud application platforms.

Seoul Bike Transit, *Spatial Geography Information Research using qGIS* Spring. 2022
Analyzed validity and efficiency of public transportation system w/ Seoul public bicycle service *Ttareungyi*.
Defined standards of a good route in safety, time, distance, exercise, cost, and transit counts.
Visualized *Ttareungyi* routes compared to those only using public transport via a live demo.

MopReM: Moiré Pattern Removal for Mobile, *Texts/Diagrams on Single-colored Background* Fall. 2021
Established a efficient module for mobile cameras specialized in demoiréing re-captured screen materials.

Deep Learning-based Wrinkle Detection, *Morpheus3D* Fall. 2020
Built new models to segment wrinkle parts in 3D scanned face images by exploiting state-of-the-art methods.

ABC, *Art with Block-Chain: Media-art Platform* Spring. 2020
Designed a platform where any creator can upload their own media arts and increase profits.
Implemented smart contract on ERC-721 token that records artwork metadata and p5.js-based contents on blockchain.

HONORS and AWARDS

ACM ICPC Regional Contest Seoul, *ACM ICPC Gogle Team*, 15th place Nov. 2021

Korea Olympiad in Informatics, *National Programming Contest for High School Students* May. 2015
Silver medal, 3rd place

EXTRA-CURRICULAR ACTIVITIES

WD Partners, *Consulting Firm providing Indoor Ventilation Solution* Jun. 2021 - Dec. 2021
Demonstrated optimal condition for high ventilation efficiency through CFD analysis for pollutants. (e.g., fine dust and droplets containing viruses).
Built a prototype device using Coanda effect for real-world validation.

Decipher, *Blockchain Research Group in Seoul National University* Mar. 2020 - Aug. 2020
Attended weekly seminars about various blockchain topics as a member of StuDeFi.
Designed a donation platform, AID-U for contributing student education expenses.