

Seokyun Ha

BACKEND DEVELOPER · JUNIOR ML DEVELOPER

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Education

POSTECH(Pohang University of Science and Technology)

B.S. IN COMPUTER SCIENCE AND ENGINEERING

- Got a GLP Scholarship twice which is given to promising students in CSE Dept.

Pohang, S.Korea

Mar. 2018 - PRESENT

POSTECH(Pohang University of Science and Technology)

B.S.(DOUBLE MAJOR) IN MATHEMATICS

Pohang, S.Korea

Sept. 2019 - PRESENT

Skills

Programming	C++, Node.js, TypeScript, Python, JAVA, R, LaTeX
Back-end	Express, NestJS, REST API, MySQL, TypeORM
ML/DL	PyTorch, TensorFlow, R, Pandas
Front-end	HTML5, CSS, SASS, ReactJS, Redux, Semantic-ui, Jekyll
Etc.	Docker, Jest, LaTeX

Experience

PoApper inc.

CHIEF DEVELOPMENT OFFICER

- Launch a mobile meal ticket application 'Posikyi' in 2021.
- Design & implement Database and REST API with NestJS, MySQL, Swagger.
- Lead TDD process and publish code coverage using mocking and Jest.
- Develop with following the OOP's overriding rule, and try to achieve low coupling.
- Follow the iterative development paradigm.
- Review partner's code and got reviewed.

Pohang, S.Korea

Jun. 2020 - PRESENT

Computer Vision Lab (Prof. Jaesik Park)

UNDERGRADUATE RESEARCHER

- Learn PyTorch & TensorFlow frameworks, and Colab.
- Research on Omni-Detection on Equirectangular Image.
- Experiment with many state-of-art detection models: Faster R-CNN, CenterNet, DETR.
- Renewal the code of "SphereNet(2018)" to be more efficient and to support general size kernels. [code]
- Develop a new 360 projection named "AdaptiveStride" mapping.

Pohang, S.Korea

Jun. 2020 - PRESENT

Korea Institute of Science and Technology, Center for Imaging Media Research

UNDERGRADUATE RESEARCHER

- Learn Python, CNN, CUDA, and GAN.
- Research Face Detection with real-time video from GoPro Fusion.
- Design the detection flow and orchestrate the process.
- Implement ERP rotation code and FOV-ERP projection with NumPy. [code 1], [code 2]

Seoul, S.Korea

Jun. 2019 - Aug. 2019

Geometric Algorithm Lab (Prof. Hee-Kap Ahn)

UNDERGRADUATE RESEARCHER

- Study the concepts of Minkowski distance.
- Solve the problems of finding L_1 center, L_1 center with obstacles.
- Solve the problems of finding L_1 two centers, L_1 two center with obstacles.

Pohang, S.Korea

Sept. 2018 - Dec. 2018

Extracurricular Activity

PoApper

CORE MEMBER & VICE PRESIDENT AT 2021

- Gained expertise in BackEnd, FrontEnd skills.
- Communicate with members, and share the developmental experiences.
- Focus on build data platform on campus.
- Lead 2020-Fall BackEnd Seminar and 2021-Spring NestJS Seminar.

Pohang, S.Korea

Sept. 2019 - PRESENT

Project

Posikyi, POSTECH Mobile Meal Ticket Payment System

CHEIF BACKEND DEVELOPER

- Develop mobile meal ticket application to replace paper ticket. Users can purchase and view meal tickets through the app, and student restaurants collect data and help plan their meals through monthly statistics and user-type statistics.
- Design & Implement Database with MySQL & TypeORM.
- Design & Implement API with NestJS & Swagger
- Implement TDD codes and Code Coverages with Jest

Pohang, S.Korea

Jun 2020 - Jan 2021.

POPO, POStechian's Portal

LEAD DEVELOPER

- Develop a convenient service to reserve equipment/place.
- Implement BackEnd with NestJS, and FrontEnd with ReactJS. [code1], [code2]
- Implement authentication/authorization with Passport.js.
- Introduce reservation recommendation algorithm with collaborative filtering.

Pohang, S.Korea

Jan. 2021

POSTECH CT camp

GAME DEVELOPER

- Develop a game inspired by the "tit-for-tat" game, in which the player challenges two bosses by making automata of the tit-for-tat strategy. Players should find the best strategy for two bosses within 10 challenges.
- Implement logic for Tit-for-Tat strategic battle.
- Implement Score Board UI.
- Design the boss's Tit-for-Tat strategy.

Pohang, S.Korea

Dec. 2019 - Jan. 2020

Writing

I love to describe what I studied again in my style. Through writing, I enjoy sharing my knowledge and worries. I'm running three Jekyll blogs about development, computer science and mathematics, and have written more than 130 posts so far.

bluehorn07's Blog

BLOG FOR DEVELOPMENT & COMPUTER ENGINEERING

- It is a blog that describes the problems, and thoughts that we encountered during developments.
- It deals NestJS, PyTorch, Software Design, and Backend

[link](#)

Blue-Screen

BLOG FOR COMPUTER SCIENCE

- The above blog contains computer science and development and "Blue-Screen" contains computer science from college.
- It deals Algorithm, Statistical Data Mining, Data Mining and Computer Vision

[link](#)

Blue-Math

BLOG FOR MATHEMATICS

- It is a blog that describes mathematical contents that I studied in college, and this represents me as a mathematician.
- It deals Modern Algebra, Applied Complex Variable, Probability & Statistics and Linear Algebra

[link](#)

Extra Activities

2021 **NestJS Seminar Mentor**, 2021-Spring, PoApper

S.Korea

2020 **Backend Seminar Mentor**, 2020-Fall, PoApper [\[link\]](#)

S.Korea

2020 **Team IHC: 3rd Rank**, 2020 POSTECH Programming Contest

Pohang, S.Korea

2019 **Educational Mentor**, Korea Hydro & Nuclear Power Co.,Ltd., Einstein Class

Ulsan, S.Korea

2018 **Educational Mentor**, POSTECH x Seoul National University of Education Educational Volunteer

Pohang, S.Korea