

Youngsoo Lee

Graduate Student, Software Engineer

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EDUCATION

- Sep 2019
~Aug 2021
(*expected*)
- Korea Advanced Institute of Science and Technology (KAIST)**
Daejeon, Korea
- M.S. Student, School of Computing
 - *Advisor: Sunghee Choi*
 - *GPA: 4.0 / 4.3*
- Mar 2015
~Aug 2019
- Hanyang University**
Seoul, Korea
- B.S. in Computer Science
 - *GPA: 3.97 / 4.5*
- Mar 2012
~Feb 2015
- Korea Digital Media High School**
Ansan, Korea
- Major in Web Programming

SOFTWARE DEVELOPMENT SKILLS

- Backend** Python, NodeJS, PHP, and AWS (EC2, S3, Lambda, Athena, etc)
- Web Frontend** TypeScript, React, and AngularJS
- DevOps** Unit Tests, TDD, Docker, Jenkins, and Lint
- Database** MySQL, DynamoDB, CouchDB, and Redis
- Others** Little experience in Go, Java, and C++

WORK EXPERIENCE

- Jul 2020
~ Present
- NAVER Corp, Clova AI Research, *Software Engineering Intern***
Seongnam, Korea
- Developing a backbone codebase for computer vision research tasks, aiming to increase research productivity by developing internal services for researchers and automating repetitive works.
 - *Modelbase*: A pretrained model server for finetuning and transfer learning tasks. Developed with Python(SDK/CLI), React(web service), Flask, and internal storage system.
 - *MLOps/CI*: Applied continuous integration for ML codes with the ML-specialized integration tests including performance measurement on GPU environments.
- Feb 2019
~ Jul 2019
(6 months)
- JENNIFERSOFT, *Software Engineering Intern***
Paju, Korea
- Developed a performance monitoring solution for frontend developers. (<https://front.jennifersoft.com/about>)
 - Contributed in the frontend part of the product using React and TypeScript, and led some side projects including component separation using Storybook and automated simulations for demo using Docker and Selenium.

Jul 2018
~ Aug 2018
(2 months)

Ratchet Cloud, Software Engineering Intern

Vancouver, Canada

- Designed and developed a game forum system as an open-source project with Express and React along with the test codes (88% coverage on the backend part). (<http://github.com/h8tch-innovations/powerforums>)

OTHER EXPERIENCE AND ACTIVITIES

Jul 2016
~ Oct 2017
(1y 4 months)

SW Maestro Program Mentee

Seoul, Korea

- A program operated by Korean government to promote the best software engineers and entrepreneurs.
- Awarded as top 8 teams among 33 teams **[a.2]**, presented at the "100+ Conference" hosted by the Ministry of Science and ICT, and signed MOU with 3 companies based on the technologies.

Mar 2015
~ Jun 2016
(1y 4 months)

ALOHA - Algorithm Research Club at Hanyang University

Seoul, Korea

- Carried out advanced studies of algorithms and challenged to various algorithm competitions. **[a.1][a.4]**

PROJECTS

Feb 2012
~ Present

Color Scripter

<https://colorscripter.com>

- Online code syntax highlighting service that helps developers upload their code to blogs or websites with high readability.
- 15k+ visitors per month, 500+ plugins made by users, 130+ sponsors supporting this service.
- Implemented with Python, JavaScript, and MySQL along with the test codes (72% coverage on the backend part).
- *Contribution: 100%*

Mar 2018
~ Oct 2018

K-React: Korea's trend topic and reaction analysis service

<https://github.com/Prev/kreact>

- Public opinion analysis service that can identify whether the policies or marketing plans are going in the right direction by visualizing public opinion in the real time.
- Implemented with Python, AngularJS, and Redis along with the NLP and text mining techniques.
- Graduation project at Hanyang University with one other team member **[a.5]**.
- *Contribution: 60%*

Jan 2017
~ Oct 2017

Memento

https://get.prev.kr/memento_presentation.pdf (19MB)

- A project from SW Maestro Program, which collects data scattered on the Internet, and analyzes to the meaningful information through artificial intelligence technology to tell the life of the famous people.
- Participated as a team leader with 2 other mentees and a mentor.

- Developed the frontend part and designed a scalable architecture of backend view part on the project.
- *Contribution: 33%*

Jan 2013
~ Nov 2013

High School Intranet System Development Project

<https://github.com/Prev/intranet>

- Developed an intranet system used in the high school autonomously by students ourselves.
- Designed full system with MVC pattern and modularization, implementing with PHP, JavaScript, and MySQL.
- Participated as a technical lead with ten other student developers.
- *Contribution: <20%*

PUBLICATIONS

[p.2] Progressive Compression of Neural Networks using Quantization / 양자화를 이용한 뉴럴 네트워크의 점진적 압축 기법

Youngsoo Lee and Sunghee Choi

Korea Computer Congress (KCC) 2020

<http://get.prev.kr/papers/KCC20.pdf>

[p.1] A Greedy Load Balancing Algorithm on Serverless Platforms Maximizing Locality

Youngsoo Lee and Sunghee Choi

Preprint

<http://get.prev.kr/papers/FaaS-Locality.pdf>

AWARDS

[a.5] 1st place in Graduation Project Exhibition at Hanyang Univ. Department of Computer Science Nov 2018

[a.4] 5th place in 5th Algorithm Competition's advanced division at Hanyang Univ. Nov 2018

[a.3] Award for excellent records(supported by AhnLab) in 8th TOPCIT Dec 2017

[a.2] Selected as an one of the top teams from 7th SW Maestro Program (30,000,000₩ reward per team) Oct 2017

[a.1] 1st place in 2nd Algorithm Competition's beginner division at Hanyang Univ. Nov 2015

PRESS

News H (Hanyang University), Student Interview

Color Scriptor, an Individual Project Created by a Middle Schooler (English article) | 27 May, 2019

<http://www.hanyang.ac.kr/surl/YF25>