

# Youngsoo Lee

Graduate Student, Software Engineer

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## EDUCATION

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Sep 2019 ~Aug 2021 (expected)	<b>Korea Advanced Institute of Science and Technology (KAIST)</b> Daejeon, Korea <ul style="list-style-type: none"><li>M.S. Student, School of Computing</li><li>Advisor: Sunghee Choi</li><li>GPA: 4.0 / 4.3</li></ul>
Mar 2015 ~Aug 2019	<b>Hanyang University</b> Seoul, Korea <ul style="list-style-type: none"><li>B.S. in Computer Science</li><li>GPA: 3.97 / 4.5</li></ul>
Mar 2012 ~Feb 2015	<b>Korea Digital Media High School</b> Ansan, Korea <ul style="list-style-type: none"><li>Major in Web Programming</li></ul>

## SOFTWARE DEVELOPMENT SKILLS

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

## WORK EXPERIENCE

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Jul 2020 ~ Sep 2020 (3 months)	<b>NAVER Corp (Clova AI Research), Software Engineering Intern</b> Seongnam, Korea <ul style="list-style-type: none"><li>Participated as an engineer at AI research team, aiming to increase research productivity and quality of the ML code.</li><li>(1): Developed a model management service for researchers to increase machine learning research productivity, especially in finetuning and transfer learning tasks. Implemented with Python(SDK/CLI), React, Flask, and MongoDB.</li><li>(2): Developed automated pipelines on the ML code including ML-specialized automated testing and weights loading/saving logics.</li><li>Review post (Korean): <a href="https://prev.github.io/posts/AI-SWE-Internship/">https://prev.github.io/posts/AI-SWE-Internship/</a></li></ul>
Feb 2019 ~ Jul 2019 (6 months)	<b>JENNIFERSOFT, Software Engineering Intern</b> Paju, Korea <ul style="list-style-type: none"><li>Developed a performance monitoring solution for frontend developers. (<a href="https://front.jennifersoft.com/about">https://front.jennifersoft.com/about</a>)</li><li>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.</li></ul>

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**

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Jul 2016  
~ Oct 2017  
(1y 4 months)

### **SW Maestro Program Mentee**

Seoul, Korea

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

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**

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Feb 2012  
~ Present

### **Color Scripter**

<https://colorscripter.com>

- Online code syntax highlighting service that helps developers upload their code to their blogs or websites with high readability.
- 15k+ visitors per month, 500+ plugins made by users, 150+ 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 allows identifying whether the policies or marketing plans are going in the right direction by visualizing public opinion in 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](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 AI 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 a 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

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- [p.3]** Accelerated Parallel Ray Tracing using Cloud / 클라우드를 이용한 병렬 레이트레이싱의 가속화  
Youngsoo Lee and Sunghee Choi  
Korea Software Congress (KSC) 2020
- [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
- [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

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| <b>[a.5]</b> | 1 <sup>st</sup> place in Graduation Project Exhibition at Hanyang Univ. Department of Computer Science | Nov 2018 |
| <b>[a.4]</b> | 5 <sup>th</sup> place in 5th Algorithm Competition's advanced division at Hanyang Univ.                | Nov 2018 |
| <b>[a.3]</b> | Award for excellent records(supported by AhnLab) in 8th TOPCIT   | Dec 2017 |
| <b>[a.2]</b> | Selected as an one of the top teams from 7th SW Maestro Program (30,000,000₩ reward per team)          | Oct 2017 |
| <b>[a.1]</b> | 1 <sup>st</sup> place in 2nd Algorithm Competition's beginner division at Hanyang Univ.                | Nov 2015 |

## PRESS

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### News H (Hanyang University), Student Interview

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

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

Last update: Dec 19, 2020