

# DaeIn Lee

Programmer



## SUMMARY

Hello, I'm DaeIn Lee from Samsung Research.  
I like to solve brain teasing problems in the field of CSE.  
I'd like to describe myself as a fast learner;  
I am confident that I can satisfy expectations of coworkers.

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in: [DaeIn Lee](#)

## Experience



Feb 2020 – present

### SW Engineer at [Samsung Research](#)

#### SUMMARY

Samsung Research is the advanced research and development (R&D) hub of Samsung Electronics.

The hub leads the development of the future technologies with more than 10,000 researchers and developers working in overseas R&D centers.

- Software Capacity Building T/F

Jun 2019 – Aug 2019

### Intern at [Samsung Research](#)

- Software engineering internship at Smart Device team.
- 8 week internship to develop smart switch circuit PMU firmware with the purpose of increasing power efficiency.

Jan 2019 – Feb 2019

### Intern at [LG CNS](#)

- Software Engineering Internship at Development Platform team.
- 6 week internship to develop new Enterprise Application Platform pages.
- Gained better understanding of overall web development.

Jul 2018 – Aug 2018

### Intern at [Fortify Inc.](#)

- Building responsive homepage for 'fortify.pro'.
- Backend/frontend development and service usage analysis using mongoDB for Gaia Landscape Inc.

## Awards



### Hanyang Academic Achievement Award from Hanyang Univ.

- 2018, 2nd semester
- 2017, 2nd semester(Highest Honor)

### Hanyang Brain Scholarship from Hanyang Univ.

- 2019, 1st semester
- 2018, 1st/2nd semester
- 2017, 2nd semester

Nov 2018

### Win 2nd place in advanced group from Hanyang Collegiate Programming Contest 2018

Dec 2017

### Win 4th place in advanced group from Hanyang Collegiate Programming Contest 2017

Sep 2017

### Advanced to final competition from Kakao Code Festival 2017

## Education



Mar 2014 – Feb 2020

### Bachelor in Computer Science & Engineering from Hanyang University, Seoul with GPA of 4.0 (major 4.28) / 4.5

- Concurrent Programming
- Data Science
- Operating Systems
- Computer Architecture
- Database Systems
- System Programming

Nov 2019

### Engineer Information Processing (정보처리기사)

## Projects



### Bw-Tree Performance Boosting : Aug 2018 – Oct 2019

#### SUMMARY

Evaluating cache / multi thread Performance of Open Bw-Tree to find bottleneck and improvement performance.

- Implementing update function based on the page.
- Make update function atomic & reduce call of traverse function.
- Design TaS implemented Bw-Tree instead of CaS to reduce the overhead of failed CaS operations.

### Wait-free Snapshot with Epoch Based Garbage Collection : Oct 2019 – Oct 2019

#### SUMMARY

Concurrent Programming Course

- Implementing Wait-free Snapshot based on the textbook 'The Art of Multiprocessor Programming'
- Concurrent update & scan function implemented
- Implement epoch based garbage collection to prevent memory leak & concurrent GC.

### Enhanced xv6 : Mar 2018 – Jun 2018

#### SUMMARY

Operating System Course

- Implement MLFQ & Stride scheduling instead of round robin scheduling.
- Implement Light Weight Process that can be used with most of POSIX-thread functions.
- Implement 'triple indirect block addressing' to support large file upto 1030 MB original limitation was 70 KB.

## Volunteer



Mar 2018 – Dec 2018

### Mentor at Hanyang Mentoring Program

#### SUMMARY

Mentoring for the major courses of CSE with juniors

- Data Structure; Teaching & helping sophomores on the data structure course.
- Database Systems; Teaching & helping sophomores on the database system course.
- Awarded 'Hanyang Best Mentor' for mentoring Database Systems course.

Mar 2014 – Dec 2014

### Mentor at Hanmille, Foreigner Mentoring Program

#### SUMMARY

Mentoring & helping foreign students to easily adjust to Korea.

## Languages



Korean :

★★★★

English :

★★★★

## Skills



Kernel Development :

★★★☆☆

Concurrent Programming

Operating System

C/C++

Algorithm :

★★★☆☆

Web Development :

★★★☆☆

HTML

CSS

Javascript

Sociability :

★★★★

Leadership

Affable

## Interests



Activity :

Tennis

Snowboarding

Reading :

J. R. R. Tolkien

이영도

전민희

Gaming :

Company of Heroes 2

Lostark