

Soyoung Yoon

University Address) 291 Daehak-ro, Yuseong-gu, Daejeon 34141, Republic of Korea
+82(42)-350-2114 (school) | +82(10)-2873-7290 (me) | soyoungyoon@kaist.ac.kr
github: soyoung97 | website: <https://soyoung97.github.io>

RESEARCH INTEREST

Natural Language Processing, Machine Learning, Social Computing, Software Engineering

EDUCATION

University

Korea Advanced Institute of Science and Technology (**KAIST**), Daejeon, South Korea

Bachelor of Computer Science

Feb. 2016 ~ Feb. 2021 (expected)

Major course

Discrete Mathematics, Data Structure, Programming Principles, System Programming,
Linear Algebra, Computer Organization, Algorithms, Operating Systems, Computer Vision,
Programming Languages, Text mining, Machine Learning, Natural Language Processing

Other courses

General Physics I/II, Biology, Chemistry I/II, Calculus I/II, Introduction to Programming,
Operations Research, Understanding Music and the Brain, Cell Biology, Understanding
Music & Music History

GPA

Total: 3.83/4.5, (Major only: 4.03/4.5)

SKILLS

English Proficiency Tests

TOEIC (by ETS), 980

Feb. 2018

TOEFL, 108

Nov. 2018

Programming Languages

Python, Matlab, Scala, C, JavaScript (Vue.js)

MAJOR PROJECTS

Pintos (KAIST Course Projects)

Spring 2018

I went through Pintos projects for the Operating System course in Spring 2018.

MadCamp (<https://www.madcamp.io>)

Summer 2018

I conducted 5 projects per week, mainly focusing on mobile app development, web programming based on Flask, Gan-based machine learning projects using TensorFlow.

Software Engineer Intern, AITRICS (<https://www.aitrics.com>)

Jan. 2019 ~ Aug. 2019

I worked as a front-end and back-end server engineer, counducting hundreds of data per minute, using Django-Rest Framework and Vue.js.

Major contributions:

- Profiled the speed of services by using Django-silk and Django-debug-toolbar. Optimized SQL queries for big amounts of input data using Django ORM.
- Implemented functions (Giving alarms at appropriate time, Calculating individual patient's medical score using celery and celery-beat and etc) needed for the VitalCare product dashboard UI
- Made current products service well with newly made machine learning models
- Applied Recurrent Neural Network models to the inference server and computed the cosine similarity between real-word and trained data distributions
- Implemented test functions using pytest and python hypothesis
- Implemented dashboard UI by Vue.js (front-end)
- Mainly implemented patient's vital sign graph by using echarts (front-end)
- In charge of the front-end and back-end part of the VitalCare product

Site: <https://www.aitrics.com/>

ACCOMPLISHMENTS

Conference presentation talk at PyCon Korea 2019

Aug. 2019

Title: Django query optimization for medical AI data processing
(pycon.kr/program/talk-detail?id=42)

Slide: <https://www.slideshare.net/SoyoungYoon11/pycon-presentation-final>

Video: <https://www.youtube.com/watch?v=HpMYWk566OA>

Received National Graduate Science & Technology Scholarship

2018

Won ~\$500 for a semester (Merit-based scholarship)

Finalist @ Power of xx <http://www.powerofcommunity.net/>

2018

Participated as one of the members of Power of xx team.

Conducting Mock Hacking Outsourcing for Hunesion Products

2018

Found two important vulnerabilities in their secure software and provided them with solutions.

Finalist @ Power of xx <http://www.powerofcommunity.net/>

2017

EXTRACURRICULAR ACTIVITIES&EXPERIENCES

Individual study at KAIST U&I lab (<https://uilab.kaist.ac.kr>) Sep. 2018 ~

Advisor: Sungjoon Park (<https://sungjoonpark.github.io/>)

A member of CONNECT Translating Supporters 2018

Translate English online programming & algorithm video lectures into Korean subtitles.

Freshmen Guidance Group (Proctor) 2018

Help a class of 31 freshmen students adapt well with academic work and campus life as a class leader.

Instructor on Samsung Dream Class Camp Jan. 2018 ~ Feb. 2018

Teach middle-school students about Math, English, and guides their living.

KAIST Buddy Program Sep. 2017

Help international exchange students adapt well with KAIST school work and Korean life.

KAIST GoN team Mar. 2017 ~

GoN is a KAIST hacking & security club that study hacking and participate in CTF.

KAIST pop band Carpe Diem as a female vocalist Mar. 2016 ~

EPGY @ Stanford Univ, <https://summerinstitutes.spcs.stanford.edu/> Jul. 2010

EPGY stands for Education Program for Gifted Youth

Participated at Computer Science Subjects.