

Jaeyoung Lee

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<https://jakethe555.github.io>

Education

University of Pennsylvania
Master's in Computer Science
(MCIT)
Expected MAY 2023

Johns Hopkins University
BA/MA in Chemistry
MAY 2018

Language

C/C++ • Java • Python
JavaScript • Matlab

Skills

Mathematical Aptitude
Communication • Research

Coursework

Intro to Computer Systems
Intro to Software Development
Intermediate Programming
Computational Chemistry
Programming for Material Eng.
Linear Algebra

Awards

Provost's Research Award
- PURA 2015
Dean's List
- for academic excellence
Certificate of Achievement
- received from the US Army
Chung In Wook Scholarship
- for academic excellence

PROJECTS

Number Converter | Lead Developer

Apr 2021 | Seoul, South Korea

- Developed and designed a program that parses a reference dictionary and outputs English pronunciation of positive integers.
- Planned the main algorithm of the program to work with different languages and an input number of 0 to undecillion.

IBM Hackathon | App Developer

May 2020 – Jun 2020 | Seoul, South Korea

- Participated in creating solutions for COVID-19 as a project designer and front-end coder in IBM 2020 Call for Code Korea Hackathon.
- Used React Native to build a cross platform app that individuals can easily donate and supply necessities to an organization.
- Implemented IBM Cloud to securely store user data and track any additional changes.

Molecular Simulation of Polymer | Lead Developer

Apr 2016 – May 2016 | Baltimore, MD

- Planned and designed an algorithm to simulate molecular dynamic movement of free-radical polymers.
- Set up the user interface to graphically display polymer movements and allow users to manipulate the number of atoms in polymer and setKE.
- Implemented Monte Carlo Simulation to analyze the polymer kinetics.

EXPERIENCE

42 Seoul School | Cadet (Student)

Mar 2021 – Aug 2021 | Seoul, South Korea

- Designed C programs to solve problems and collaborated with others to share the logic behind individuals' codes.
- Learned strong leadership, interpersonal and communication skills by spending significant amount of time as a group.
- Dedicated an average of 60 hours of coding per week during the pre-test (la piscine) for the school.

Klausen Chemistry Lab | Undergrad. Researcher

May 2015 – May 2018 | Baltimore, MD

- Conducted research regularly and studied about polymer and azaborine chemistry.
- Performed various laboratory techniques including air-free synthesis, purification and characterization