

Sukhun Yang

UNDERGRADUATE · RESEARCHER

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Education

Seoul National University

B.S. IN COMPUTER SCIENCE AND MATHEMATICS

- Dept. in College of Liberal Studies
- Major in Computer Science Engineering and Mathematics
- Honors: Suasfs
- 2 years mandatory military service (Mar. 2024 - Feb. 2025)

Seoul, South Korea

Mar. 2021 - Current

Gyeonggi Science High School

HIGH SCHOOL FOR GIFTED STUDENTS IN MATHEMATICS AND SCIENCE

- Research and Write a Graduation Thesis in Simulation of Quantum Mechanics
'Quantum Dynamics of Spin-System Interacting with Chain bath'
- Relevant Coursework: Computer Programming, Object Oriented Programming, Data Structure

Suwon, South Korea

Mar. 2018 - Feb. 2021

Publications

[1] DDD: A DNS-based DDoS Defense Scheme Using Puzzles

ICCCN '24

Hyeonmin Lee, Taehyun Kang, **Sukhun Yang**, Jinyong Jun and Taekyoung Kwon
33rd International Conference on Computer Communications and Networks (ICCCN), Big Island, Hawaii, USA, July 2024

Experience

MMLAB (Network Convergence & Security Laboratory)

RESEARCH INTERN @ SEOUL NATIONAL UNIVERSITY

- Prof. Taekyoung Ted Kwon
- Research about puzzle-based DDoS mitigation using DNS

Seoul, South Korea

Jul. 2023 - Feb. 2024

ROPAS (Programming Research Laboratory)

RESEARCH INTERN @ SEOUL NATIONAL UNIVERSITY

- Prof. Kwangkeun Yi
- Research about dead-value analysis and termination analysis in ReScript
- Research about training ChatGPT automatically using programming synthesis

Seoul, South Korea

Jul. 2022 - Jun. 2023

Georgia Institute of Technology

YOUTH RESEARCH INTERN @ INSTITUTE FOR ELCTRONICS AND NANOTECHNOLOGY

- Advisor. Prof. Seungjoon Paik
- Research Internship Program for Gyeonggi Science High School for the Gifted
- Research about Semiconductor manufacturing process and applications in biotechnology

Atlanta, U.S.A

Jan 2020

Project

PyViz: Data-driven AI education tool site

FRONTEND DEVELOPER, RESEARCH AND DESIGN PROJECT

- Team project of LucidAI team as result of Software Maestro support process
- Web-based platform to manipulate data and build neural networks in a drag-and-drop manner
- Help visually understand and experience design and training process of machine learning models through user-friendly interface
- Develop PyX framework to host python renderable objects like code, image, etc.
- PiViz website: <https://pyviz.site>

Seoul, S.Korea

Apr. 2023 - Nov. 2023

Teaching

Data Structures (M1522.000900)

UNDERGRADUATE TEACHING ASSISTANT @ SEOUL NATIONAL UNIVERSITY

- Undergraduate TA

Seoul, South Korea

Fall 2022, Spring 2023

Basic Computing: First Adventures in Computing (L0444.000400)

UNDERGRADUATE TEACHING ASSISTANT @ SEOUL NATIONAL UNIVERSITY

- Undergrad. TA

Seoul, South Korea

Spring 2023

Basic Calculus 1 (033.016)

STUDENT INSTRUCTOR @ SEOUL NATIONAL UNIVERSITY

- Instructor

Seoul, South Korea

Spring 2023

College Writing 2: Writing in Science & Technology (L0440.000900)

TUTOR @ SEOUL NATIONAL UNIVERSITY

- Tutor

Seoul, South Korea

Spring, Fall 2022, Spring 2023

Scholarships & Awards

SCHOLARSHIPS

2023 **Kwanjeong Educational Foundation Scholarship**, 18th domestic scholarship students

Seoul, South Korea

2021 **Academic Excellence Scholarship**, Awarded by SNU

Seoul, South Korea

AWARDS

2022 **Excellence Award**, Social Volunteer Service Excellent Report @ Seoul National University

Seoul, South Korea

Extracurricular Activity

Software Maestro

14TH TRAINEE

South Korea

Apr. 2023 - Nov.2023

- Government support project leading the future of the SW industry by fostering creative challenge type SW talent
- The Federation of Korean Information Industries
- Taking several software development training sessions and working on mini-projects and team projects
- Final team project: 'PyViz: Data-driven AI education tool site'
- Korean Ministry of Science and ICT

Private AI Boot Camp

PARTICIPANT

Seoul, South Korea

Jul. 2022

- Learning basic mathematical theory of HE (Homomorphic Encryption) and Cryptology in general
- Writing Python code about CKKS Scheme and HEaaN Algorithm (PyHEaaN)

SNUPS (Problem Solving Club in Seoul National University)

MEMBER

Seoul, S.Korea

Mar. 2021 - PRESENT

- Problem solving like codeforces

Skills

Programming C/C++, Python, JAVA, OCaml, JavaScript, etc.

Languages Korean (Native), English (Intermediate), Spanish (Basic)

Others LaTeX, PPT, Excel, etc.