

Yeonsang Shin

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EDUCATION

- **Seoul National University** Seoul, Korea
Bachelor of Electrical and Computer Engineering *Mar 2019 - Present*
 - **Current GPA:** Total 4.06/4.3 (3.92/4.0), Major 4.1/4.3 (3.93/4.0)
 - 18 Months Mandatory Military Service Included
- **Seoul Science High School** Seoul, Korea
Specialization in Mathematics *Mar 2016 - Feb 2019*
 - **GPA:** 4.21/4.3
 - **Experiences:** Korean Mathematical Olympiad Winter School, U.C. Berkeley Global Research Program (Electrical & Electronics Engineering), One project research per semester (Total 6, in mathematics)

EXPERIENCE

- **KRAFTON Inc.** Seoul, Korea
AI Research (Full-time Internship) *(Expected) Jun 2024 - Aug 2024*
- **Computer Vision Lab, Seoul National University** Seoul, Korea
Undergraduate Researcher (Full-time Internship) *Jan 2024 - Present*
 - **Vector Image Generation:** Advised by Prof. Bohyung Han
- **Data Science & Artificial Intelligence Lab, Seoul National University** Seoul, Korea
Undergraduate Researcher (Part-time Internship) *Mar 2023 - Dec 2023*
 - **Subject-Driven Image Composition:** Advised by Prof. Sungroh Yoon (July - Dec)
 - **Personalized Text-to-Audio Generation:** Advised by Prof. Sungroh Yoon (March - June)
- **Republic of Korea Defense Communication Command** Gwacheon-si, Korea
Military Service *Aug 2021 - Feb 2023*
 - **Telecommunications System:** Maintained military microwave communication systems, especially providing backup supports for telecommunication stations.
 - **System Upgrades:** Managed to implement new devices such as spectrum analyzers, providing more stable telecommunication networks.
- **Theta One** Seoul, Korea
Deep Learning Engineer (Part-time Internship) *Nov 2022 - Jan 2023*
 - **Nonsense Detection:** Created a model to detect and classify various nonsense inputs, especially mild gibberish. Generated datasets, fine-tuned models, and visualized the importance of words for the result using the method of Integrated Gradients.
- **Desilo Inc.** Seoul, Korea
Software Developer (Full-time Internship) *Apr 2021 - Jul 2021*
 - **Python-PALISADE Project:** Implemented and distributed a Python wrapper for PALISADE (a C++ library for Homomorphic Encryption from Duality Technologies)
 - **Research on Google FHE Transpiler:** Tested the stability and performance of the Google FHE Transpiler, Presented adoptable ideas from "A General Purpose Transpiler for Fully Homomorphic Encryption" for the company
 - **Desilo HE Library:** Contributed in building internal APIs for Desilo HE Library
 - **WebAPI:** Utilized FastAPIs and MySQL to implement MVP Website

SCHOLARSHIPS AND AWARDS

- **2024 KRAFTON AI Fellowship Program, Top 5** *Dec 2023 - Feb 2024*
Selected among 1,000 participants in a selection process involving three tests. Awarded a research grant \$7,500 and research internship offer (Jun 2024 - Aug 2024).
- **Presidential Science Scholarship** *Jan 2019 - Feb 2025*
A full 4-year scholarship awarded for students with outstanding performance in research during high school. \$5,500 awarded every semester for full tuition and living expenses by the Government of South Korea.
- **3rd/144 Teams, SNU FastMRI Challenge** *Jul 2023 - Aug 2023*
A significant competition held independently in the university, inspired by the FastMRI competition hosted by Meta. Presented a deep neural network for MRI reconstruction with undersampled data under restricted conditions

SIDE PROJECTS

- **Weathy (Server)** - Team project of 16 people, led server team *Dec 2020 - Mar 2021*
 - Personalized weather delivery mobile application
 - Released on App Store (1000+ Downloads) and Google Play
 - Used NodeJS(Express), MySQL, Amazon EC2, Amazon RDS, PM2
- **TutorDot (Product Manager)** - Led a team of 14 people *Aug 2020 - Jan 2021*
 - Tutoring management application for both tutors and tutees
 - Released on App Store and Google Play
 - Planned a whole new application through a systematic process
- **Pause (Server)** - One day hackathon team project *Nov 2020*
 - Effective time management application for YouTube
 - Used NodeJS(Express), MySQL

TECHNICAL SKILLS

- **Expert:** C, C++, Python, PyTorch, Git, Markdown
- **Experienced:** TensorFlow, JavaScript(NodeJS, ExpressJS), MySQL, Java, MATLAB, R, Amazon AWS, pandas, TensorFlow, L^AT_EX, Hexo, Docker, FastAPI, Redis, VirtualBox, Fusion 360

EXTRACURRICULAR EXPERIENCE

- **Young Engineers Honor Society:** YEHS, an organization under the National Academy of Engineering of Korea, Full Membership (Jan '23 - Present)
- **SNU Buddy:** Buddy program for the international exchange students (Aug '23 - Present)
- **Dream Camp Mentoring:** Conducted mentoring program about "how to materialize one's dream" for high school students in countryside (Jul '23)
- **Festival Planning Team:** Affiliated organization by Seoul National University (Feb '21 - Jul '21)
- **S.O.P.T 27th:** IT venture start-up club for universities in Seoul, Server Part (Sep '20 - Jan '21)
- **Student Council, College of Engineering:** Welfare team (Feb '20 - Nov '20)
- **Student Council, Dept. of ECE:** Planning team (Feb '20 - Aug '21)
- **S.O.P.T 26th:** Plan Part (Apr '20 - Aug '20)
- **Student Council, College of Engineering:** Design team (Mar '19 - Nov '19)
- **Visiting Engineering Volunteers:** A program to visit and provide educational services and mentoring to students (Aug '19)