

Yeonsang Shin

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EDUCATION

- **Seoul National University** Seoul, Korea
Bachelor of Electrical and Computer Engineering *Mar 2019 - Present*
 - **Current GPA:** Major 4.16/4.3, Total 4.08/4.3
 - **Relevant Courses:** Introduction to Algorithms, Introduction to Data Structures, Linear Algebra for Electrical Systems
- **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

- **Republic of Korea Defense Communication Command** Gwacheon-si, Korea
Military Service *Aug 2021 - Present*
 - **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.
- **Desilo Inc.** Seoul, Korea
Software Developer (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

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, including market analysis, defining user persona, and creating wireframes
- **Pause (Server)** - One day hackathon team project *Nov 2020*
 - Effective time management application for YouTube
 - Used NodeJS(Express), MySQL
- **Mathematical Expression Evaluator** - Individual assignment for 'Programming Methodology' class *Apr 2020*
 - Implemented a mathematical expression evaluator using C++

SCHOLARSHIPS AND AWARDS

- **Presidential Science Scholarship - Jan, 2019:**
A full 4-year scholarship awarded for students with outstanding performance in research during high school

TECHNICAL SKILLS

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

EXTRACURRICULAR EXPERIENCE

- **Server Part:** S.O.P.T 27th, an IT venture start-up club for universities in Seoul (Sep '20 - Jan '21)
- **Planning team:** Student Council, Dept. of ECE (Feb '20 - Aug '21)
- **Welfare team:** Student Council, College of Engineering (Feb '20 - Nov '20)
- **Plan Part:** S.O.P.T 26th (Apr '20 - Aug '20)
- **Design team:** Student Council, College of Engineering (Mar '19 - Nov '19)