

# GYE JIN, LEE

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## EDUCATION

<b>Georgia Institute of Technology (GATech)</b> <i>Ph.D. Computer Science</i>	<b>Atlanta, Georgia</b> <i>Aug 2022-present</i>
<b>Seoul National University (SNU)</b> <i>B.S. Double Major</i> <ul style="list-style-type: none"><li>B.S. in Mathematical Sciences</li><li>B.S. in Computer Science and Engineering</li></ul>	<b>Seoul, South Korea</b> <i>Mar 2016-Feb 2022</i>
<b>Seoul Science High School</b> <i>High School for Gifted Students</i>	<b>Seoul, South Korea</b> <i>Mar 2013-Feb 2016</i>

## RESEARCH INTERESTS

- Software Security
- Cryptography

## RESEARCH EXPERIENCE

<b>Systems Software and Security Lab (SSLab), Georgia Tech</b> <i>Graduate Research Assistant (Advisor: Prof. Taesoo Kim)</i> <ul style="list-style-type: none"><li>Researching Web3 security and symbolic execution</li></ul>	<b>Georgia, USA</b> <i>Aug 2022-present</i>
<b>PwnedNoMore (PNM)</b> <i>Community Hacker &amp; Research Intern</i> <ul style="list-style-type: none"><li>Security auditing for various Web3 applications</li></ul>	<b>New York, USA</b> <i>Jun 2022-Aug 2022</i>
<b>Programming Research Lab (ROPAS), SNU</b> <i>Undergraduate Research Intern (Advisor: Prof. Kwangkeun Yi)</i> <ul style="list-style-type: none"><li>Developed Hedgehog, a Homomorphic Encryption Optimization Compiler</li></ul>	<b>Seoul, South Korea</b> <i>Feb 2021-April 2022</i>
<b>SSLab, Georgia Tech</b> <i>Undergraduate Research Intern (Advisor: Prof. Taesoo Kim)</i> <ul style="list-style-type: none"><li>Member of the academic CTF Team, rootimentary</li></ul>	<b>Georgia, USA</b> <i>Aug 2020-Aug 2022</i>
<b>Cryptography Lab, SNU</b> <i>Undergraduate Research Intern (Advisor: Prof. Jung Hee Cheon)</i> <ul style="list-style-type: none"><li>Developed algorithm for homomorphic encryption based privacy preserving human contact tracing</li></ul>	<b>Seoul, South Korea</b> <i>Feb 2020-July 2020</i>

## TEACHING EXPERIENCE

<b>Graduate Teaching Assistant, GATech</b> <i>TA for CS6265: Information Security Lab, Binary Exploitation (Instructor: Prof. Taesoo Kim)</i> <ul style="list-style-type: none"><li>Spring 2023, Spring 2024</li></ul>	<b>Georgia, USA</b>
<b>Online International Winter Program, SNU</b> <i>TA for Introduction to Computer Security (Instructor: Prof. Taesoo Kim)</i> <ul style="list-style-type: none"><li>Winter 2021</li></ul>	

## AWARDS AND HONORS

<b>DARPA AIXCC</b> <i>Member of Team Atlanta</i> <ul style="list-style-type: none"><li>1st Place, AIXCC Finals (DEFCON 2025)</li><li>Finalist, AIXCC SemiFinals (DEFCON 2024)</li></ul>	<i>Aug 2023- Aug 2025</i>
<b>Capture-the-Flag (CTF)</b> <i>Member of Georgia Tech Academic Team, rootimentary</i> <ul style="list-style-type: none"><li>4th Place, DEFCON CTF (Team: StarBugs)</li><li>7th Place, DEFCON CTF Quals (Team: StarBugs, Qualified for DEF CON CTF)</li><li>3rd Place, zeropts CTF (Team: rootimentary)</li><li>1st Place, Real World CTF (Team: CodeRoot)</li></ul>	<i>Jan 2021-present</i> <i>Aug 2021</i> <i>May 2021</i> <i>Mar 2021</i> <i>Jan 2021</i>

### Simon Marais Mathematics Competition

- 6th Place and Merit Prize for Creative Solution, East Division

Dec 2021

### Korean Mathematics Society

- Gold Medal, University Students Contest of Mathematics Field 1 (for mathematics majors)
- International Mathematics Olympiad Korea National Team Candidate (one of the twelve final candidates)
- Excellence Award, Korea Mathematics Olympiad Final Round
- Gold Medal, Korea Mathematics Olympiad
- Honorable Mention, Asian Pacific Mathematics Olympiad

Dec 2016

April 2015

April 2015

Nov 2014

Mar 2014

## SCHOLARSHIPS

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### Korean Foundation for Advanced Studies

*Undergraduate Special Scholarship*

Aug 2020-Feb 2022

### Korea Student Aid Foundation

*Presidential Science Scholarship in Mathematics (Full Tuition plus Stipend)*

Mar 2016-Feb 2022

### Hanseong Sonjaehan Scholarship Foundation

*Hanseong Gifted Student Scholarship in Mathematics*

Sep 2013

## MAJOR COURSES

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### Graduate

*Computer Science*

- Applied Cryptography, Network Security, Information Security Lab: Binary Exploitation
- Algebra II

### Undergraduate

*Mathematics & Computer Science*

- Calculus, Statistics, Introduction to Analysis, Linear Algebra, Number Theory, Complex Function Theory, Differential Equations, Modern Algebra, Introduction to Topology, Introduction to Cryptography, Algebraic Coding Theory
- Computer Programming, Data Structure, Algorithms, Programming Language, Principles of Programming, Electrical and Electronic Circuits, Logic Design, Computer Architecture, System Programming, Quantum Information and Computing, (Graduate-level) Cryptography, Operating Systems

## OTHER EXPERIENCE

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### Republic of Korea Army (ROKA)

*Mandatory Two Year Military Service*

**Hwacheon, South Korea**

Mar 2018-Nov 2019

- Artillery Observer in the 56th Field Artillery
- Served within the Demilitarized Zone, on the border of South and North Korea

## SKILLS

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### Programming Languages

- Rust, C, C++, Java, Python, OCaml, Solidity, R, MATLAB, SageMath, Scala

### Languages

- English (fluent, TOEFL: 114, GRE: 160/170/4.5)
- Korean (native)