

Jacob Ginesin

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EDUCATION

Northeastern University <i>BS in Computer Science and Mathematics</i> <ul style="list-style-type: none">• GPA: 3.81/4.0• Activities: Math Society, Cybersecurity Club	Aug 2021 - May 2025 <i>Boston, MA</i>
University of College Dublin (Study Abroad) <ul style="list-style-type: none">• GPA: 3.84/4.0	Aug 2021 - Dec 2021 <i>Dublin, Ireland</i>
Plymouth Whitemarsh High School <ul style="list-style-type: none">• GPA: 3.9/4.0 Graduated Summa Cum Laude	Sep 2017 - Jun 2021 <i>Plymouth Meeting, PA</i>

EXPERIENCE

Researcher <i>Network and Distributed Systems Security Lab (NDS2)</i> <ul style="list-style-type: none">• Employing formal methods techniques to analyze the Signal Protocol• Mentored by Cristina Nita-Rotaru & funded by Khoury College of Computer Sciences	Aug 2022 - Present <i>Boston, MA</i>
Researcher <i>Information Sciences Institute at University of Southern California</i> <ul style="list-style-type: none">• Researched B-Root domain name system resolver behaviors at the Information Science Institute• Mentored by Jelena Mirkovic & funded by the National Science Foundation• Submitted first-author <u>manuscript</u> to <u>BDCAT 2022</u> (result pending)	Jun 2022 - Aug 2022 <i>Los Angeles, CA</i>
Research Assistant <i>Network and Distributed Systems Security Lab (NDS2)</i> <ul style="list-style-type: none">• Worked on propositional finite state machine repair methods with Cristina Nita-Rotaru• The research is part of a larger project where we employed NLP to derive finite state machines of distributed protocols (e.g. TCP, DHCP) from RFC documentation, then systematically tested their security	Feb 2022 - Jun 2022 <i>Boston, MA</i>
Full Stack Developer <i>Onfour - Virtual Concert Startup</i> <ul style="list-style-type: none">• Designed, programmed, and implemented ReactJS components• Implemented a chat server using web sockets, MongoDB, and NodeJS• <u>Code</u>	Jul 2020 - Oct 2020
Information Technology/Camp Counselor <i>Independent Lake Summer Camp</i> <ul style="list-style-type: none">• Managed and secured a network for 500+ Campers and 100+ staff• Upgraded camp network infrastructure and repaired computers• Taught campers how to build model rockets and how to use Photoshop	Jun 2019 - Aug 2019 <i>Thompson, PA</i>

TECHNICAL SKILLS

Languages: C++, Java, Python, Javascript, Rust, Shell, C, Lua, Racket, PHP, HTML, CSS
Libraries: NodeJS, NumPy, Tensorflow, PyTorch, Keras, OpenCV, Matplotlib
Frameworks: ReactJS, Django, JQuery, ElectronJS
Software: Linux, Git, Latex, Vim, Metasploit, Wireshark, MongoDB, MySQL

PROJECTS

- Discipline Management System**
 - Actively employed by Plymouth Whitemarsh High School
 - Built using PHP, MySQL, and Bootstrap
- Personal Website - jakegines.in**
 - Selfbuilt website and blog
 - Code