

Jacob Ginesin

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EDUCATION

Northeastern University

Aug 2021 - May 2025

BS in Computer Science and Mathematics

Boston, MA

- **GPA:** 4.0/4.0
- **Relevant Coursework:** Foundations of Cybersecurity, Calculus 3, Introduction to CS Research, Discrete Structures
- **Activities:** NU Blockchain Organization, NU Security Club

University of College Dublin (Study Abroad)

Aug 2021 - Dec 2021

Dublin, Ireland

- **GPA:** 3.84/4.0
- **Activities:** Netsoc, Elecsoc

Plymouth Whitemarsh High School

Sep 2017 - Jun 2021

Plymouth Meeting, PA

- **GPA:** 3.9/4.0 | Graduated Summa Cum Laude
- **Relevant Coursework:** AP Computer Science, AP Physics C, AP Calculus BC, AP Stats
- **Activities:** Competitive Programming Club, Varsity Wrestling, Varsity Track, FIRST Robotics, Technology Student Association, Chess Team, Chemistry and Calculus tutoring, SAT math tutoring

EXPERIENCE

Research Assistant

Feb 2022 – Present

Network and Distributed Systems Security Lab (NDS2)

Boston, MA

- Working on probabilistic CTL-based finite state machine repair
- Work is part of a larger lab project, where we're employing NLP to derive FSMs from RFC documentation, then systematically testing their security

Full Stack Developer

Jul 2020 – Oct 2020

Onfour - Virtual Concert Startup

- Worked closely with the founding team in order to devise methods to improve the experience of fans and artists for virtual live concerts.
- Designed, programmed, and implemented ReactJS components
- Built and implemented a chat server using Socket, NodeJS, and MongoDB
- [Code](#)

Information Technology/Camp Counselor

Jun 2019 - Aug 2019

Independent Lake Summer Camp

Thompson, PA

- Managed, secured, and upgraded a large computing network used daily by 600+ Campers and 150+ staff
- Taught campers how to build model rockets and how to use Photoshop
- Solved miscellaneous technical issues around camp

TECHNICAL SKILLS

Languages: C++, Java, Python, Javascript, Go, Rust, Shell, Solidity, C, Lua, Racket, PHP, HTML, CSS

Libraries: NodeJS, NumPy, Tensorflow, PyTorch, Keras, OpenCV, Matplotlib

Frameworks: ReactJS, Django, JQuery, ElectronJS

Software: Linux, Git, Latex, MathJax, Excel, Vim, Metasploit, Wireshark, MongoDB, MySQL

ACTIVITIES

Open Source Contribution

- Contributed code to Ethereum, Monero, Algorand, and FreeCodeCamp
- Actively involved in respective developer communities

Idaho National Labs Cybersecurity CTF

- Invited to compete in INL's cybersecurity competition at their multi-million dollar mock chemical plant
- Competed as captain of the red (attackers) team, leading 12 seasoned cybersecurity professionals

PROJECTS

Discipline Management System

- Utilized by Plymouth Whitemarsh High School
- Built using PHP, MySQL, and Bootstrap

Personal Website - jakegines.in

- Selfbuilt Website and Blog
- Receives around 50 views per day
- Built using NodeJS, ExpressJS, and MongoDB
- [Code](#)

Chrome Extension - New Tab Custom URL

- Published Chrome extension that changes the URL of a newly opened tab
- [Code](#)