

Daniel Melcer

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Education

Northeastern University

Boston, MA

B.S. IN COMPUTER SCIENCE • MINORS: MATH & PHYSICS • GPA: **4.00**

2017 - 2022

- Admitted to Honors program.
- Relevant Coursework: Fundamentals of Computer Science, Discrete Structures, Linear Algebra, Building Extensible Systems, Algorithms.

AWARDS

Fall 2017 **Dean's List**, College of Computer and Information Science

ACTIVITIES

2017 - Present **Member**, Paradigm Hyperloop
2017 - Present **Member**, Times New Roman Satire Magazine

Smithtown High School East

Saint James, NY

GRADUATED WITH HONORS • GPA: **4.64**

2013 - 2017

AWARDS

2017 **Research Report Badge**, Society for Science and the Public
2017 **National AP Scholar**, The College Board
2017 **Physics Award**, Smithtown High School East

ACTIVITIES

2013-2017 **Lead Programmer & Vice President of Engineering**, Smithtown Robotics
2014-2017 **Technical Director**, Math Honor Society

Experience

College of Computer and Information Science at Northeastern

Boston, MA

FUNDAMENTALS OF COMPUTER SCIENCE 1 TUTOR/GRADER

Spring 2018

- Provided guidance to students during lab sections.
- Held scheduled office hours to reinforce concepts taught during lecture.

Personal Technical Project

Boston, MA

CONNECT FOUR IMPLEMENTED VIA SMART CONTRACT • [CONNECT.DANIELMELCER.NET](https://connect.danielmelcer.net)

Winter 2017 - 2018

- Programmed a Solidity smart contract allowing people to create, join, and play Connect Four games.
- The contract automatically rejects invalid moves and allows the winner of a game to claim victory.
- Built a corresponding website to interface with the contract if a Web3 browser or extension is installed.

Brookhaven National Laboratory

Upton, NY

HIGH SCHOOL RESEARCH PROGRAM SUMMER INTERN

Summer 2016, 2017

- Developed a Django website to conveniently access a database of on-site network switches.
- Wrote a Python desktop application to manage, sort, and search a database of ethernet ports in multiple buildings.
- Used CUDA to search for continued fraction representations of known roots of the Riemann Zeta function.

Gurwin Jewish Nursing Home

Commack, NY

VOLUNTEER

2015 - 2017

- Assisted caregivers on nursing unit by distributing supplies.
- Aided with transport of residents to and from recreational activities.

Suffolk Y Jewish Community Center

Commack, NY

JUNIOR COUNSELOR

Summer 2015

- Supervised a group of about 15 campers aged 5-7.
- Led activities such as team sports and aided the senior counselor.

Skills

Programming Java, Solidity, CUDA, Python, React JS

Technical Autodesk Inventor, Basic Electronics, 3D Printing