

# 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 website to conveniently access a database of on-site network switches.
- Wrote a desktop application to manage, sort, and search a database of ethernet ports in multiple buildings.
- Searched 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