Daniel Melcer

480 Parker Avenue, Boston, MA 02115 | 21 Nicola Lane, Nesconset, NY 11767 | (631) 682-0560
daniel@danielmelcer.net | danielmelcer.net | github.com/dmelcer9 | linkedin.com/in/dmelcer9/
Availability: January 2019 - June 2019

Education

Northeastern University   *Boston, MA*
College of Computer and Information Science • GPA: 4.00   *September 2017 - Present*
Candidate for a Bachelors of Science in Computer Science   *May 2021*
Enrolled in 5-year Masters of Science of Computer Science program

Minors	Math, Physics
Coursework	Algorithms (graduate), Computer Systems (graduate), Object Oriented Design, Linear Algebra
	Building Extensible Systems, Logic and Computation, Group Theory
Awards	Honors Program, Dean's List
Activities	Webmaster of NUHacks, Deputy Head of Communication of Times New Roman Satire Magazine

Skills

Languages	Java, C#/VB.NET, Typescript, Javascript, Python, SQL, Racket, Solidity, C/C++
Frameworks	Keras, RESTEasy, React, Sequelize, CUDA, Truffle, Django
Tools	Git, Oracle, Postgres, AWS

Experience

College of Computer and Information Science • Northeastern University   *Boston, MA*
Fundamentals of Computer Science 1 Course Assistant   *January 2018 - Present*
- Provided guidance to students during lab sections on topics such as functional programming and effective testing
- Held scheduled office hours to assist students with program design concepts taught during lecture
- Evaluated student work and wrote detailed feedback about program architecture and implementation

Forward Thinking Systems   *Jericho, NY*
Software Development Intern   *May 2018 - August 2018*
- Detected features such as camera blockages present in image thumbnails with Python and Keras
- Devised a Typescript Alexa application to answer common customer queries about their fleet
- Collaborated with Poland office on C# application to view and export archived video from an external disk
- Migrated a password-based Java SOAP application to REST and implemented an OAuth2 token flow
- Created a real-time dashboard in VB.NET to report statistics on current support queues and SLA percentages

Brookhaven National Laboratory   *Upton, NY*
Summer Research Intern   *July 2016 - August 2017*
- Constructed a Django website to improve efficiency while administering on-site network switches
- Wrote a Python desktop application to manage, sort, and search a database of over 1000 ethernet ports
- Increased speed of search for mathematical constants by over 100x with CUDA

Projects

Invertible Programming Language • Northeastern University   *Boston, MA*
Language Extension • github.com/Inverse-Lang/Inverse-Lang   *January 2018 - April 2018*
- Extended Racket programming language and standard library to allow for definition of invertible functions
- Utilized algebraic rules to automatically generate inverses of functions composed of other invertible functions

Smart Contract Applications • Personal Project   *December 2018 - January 2018*
Connect Four via Smart Contract • connect.danielmelcer.net
- Learned how to develop applications to run on globally distributed Blockchain platforms such as Ethereum
- Programmed a Solidity smart contract allowing people to initiate, join, and play Connect Four games
- Built a corresponding website to interface with the contract if a Web3 browser or extension is installed