

# Nathan Majumder

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*Personal Website:* [nmajumder.github.io](http://nmajumder.github.io)

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## Education

Tufts University - Medford, MA

BS in Computer Science and Mathematics, *Summa Cum Laude*, 2017

GPA: 3.89

*Relevant Coursework:* Programming Languages, Machine Structure & Assembly Language Programming, Theory of Computing, Computer Vision, Artificial Intelligence, Data Structures, Algorithms, Android Development, Abstract Algebra, Linear Algebra, Real Analysis, Differential Equations, Discrete Mathematics, Probability, Data Mining

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## Experience

**Redline Trading Solutions**, Woburn, MA

**Summer 2016**

*Software Development Intern*, Software Quality Assurance group

- Modified and rewrote some of the existing Python automated testing framework
- Developed tests for the product (a ticker plant for high frequency trading)
- Developed automation tools such as an application to run unit tests

**Tufts University, Computer Science Department**

**Fall 2015**

*Teacher's Assistant*, Introductory Computer Science

- Taught students proper coding techniques and guided them on homework assignments
- Graded homework and exams

**Tufts University, Electrical & Computer Engineering Department**

**Spring - Summer 2015**

*NSF REU Fellow*

- Developed and refined a new data model and algorithm for subspace clustering of multi-way data
- Implemented and tested the algorithm in Matlab using real data
- **Publication:** *Multilinear Subspace Clustering*, presented at 2016 IEEE Statistical Signal Processing

**Draper Laboratory**, Cambridge, MA

**Summer 2014**

*Undergraduate Research Intern*, Electro-Optics and Instruments group

- Constructed a Michelson interferometer on an optical bench to test it for use in an inertial measurement unit containing an accelerometer and gyroscope
  - Wrote Matlab scripts to analyze interferometer data
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## Skills

**Programming Languages:** C, C++, Python, Matlab, HTML, CSS, JavaScript, Java

**Operating Systems:** Linux, Mac OS

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## Activities

Tufts Varsity Soccer, Captain 2016

- Honored as an All-NESCAC 1st Team member and NSCAA All-New England Team member in 2015
- Won Tufts' first ever NCAA Division III National Championship in 2014, and again in 2016

Tufts Wind Ensemble, 1st Chair Trumpet

Level the Field, Volunteer

- Taught middle school children the importance of themes such as teamwork, sportsmanship, and selflessness