Nathan Majumder

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Education

Tufts University - Medford, MA

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

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

Experience

IBM, Littleton, MA **Sept 2017 - Present**

Software Engineer, Watson Customer Experience Analytics

- Worked on the backend of an omni-channel analytics SaaS product
- Developed product features in a Java codebase including query-building logic
- Spent extensive time working with the Apache Hive database

Redline Trading Solutions, Woburn, MA **Summer 2016**

Software Development Intern, Software Quality Assurance

- 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, 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 datasets
- **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

Skills

Programming Languages: C, C++, Java, Python, Matlab, HTML, CSS, JavaScript
Operating Systems: Linux, Mac OS

Activities & Achievements

Tufts Varsity Soccer, Captain 2016

- Honored as an All-NESCAC 1st Team member and NSCAA All-New England Team member in 2015
- Won the NCAA Division III National Championship in 2014 and in 2016

Tufts Wind Ensemble, 1st Chair Trumpet