Nathan Majumder

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Education

Tufts University - Medford, MA **2013 - 2017**

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

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

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

Software Engineer, Watson Customer Experience Analytics

- Worked on the backend and mid-tier of an omni-channel marketing analytics SaaS product
- Developed product features in a Java codebase including query-building logic
- Worked with Apache Hive on Tez, building schemas and optimizing to minimize latency

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 **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

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Skills

Languages: Java, C, C++, Python, Matlab, HTML, XML, CSS, JavaScript
Data Management: Hadoop, Hive, HDFS, MySQL, Oracle, CouchDB, Redis
Operating Systems: Linux, Mac OS

Interests & 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 2016