Nathan S. Winters

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Education

Tufts University, Medford, MA

Bachelor of Science, Computer Science, Expected May 2016

GPA: 3.68, Dean's List

Relevant Course Work: Web Engineering (Spring 2015), Machine Learning (Spring 2015), Computation Theory (Spring 2015), Programming Languages, Visualization, Machine Structure & Assembly Language Programming, Data Structures, Electrical Systems, Discrete Math, Web Programming, Object Oriented Programming, Digital Logic, Engineering Management

Languages: C++, C, Java, HTML/CSS, JavaScript, MATLAB, SQL, D3, ProcessingJS, Assembly, Scheme, ML

Projects: Exploratory Visualization on Education in America (Java, Processing, SQL), Universal Machine (C), Interactive MBTA Map (HTML/CSS, JavaScript, Google Maps API)

Berwick Academy, South Berwick, ME

Graduated Cum Laude, June 2012

Work Experience

Visual Analytics Lab at Tufts, Somerville, MA

Research Intern, Jan 2015-Present

- Develop software for the Prognosis Assessment for Conservative Treatment tool (PROACT)
- Use D3 to create and update embedded visualizations tailored to prostate cancer patients
- Conduct clinical trials to determine the effectiveness of the product on patient decision making

InterSystems, Cambridge, MA

Software Engineering Intern, May 2014-Aug 2014

- Developed and enhanced applications used to track development processes
- Used a NoSQL Database to track and integrate data
- Created user interfaces using standard techniques and in-house technologies
- Handled support tasks to assist Support Engineers

Tufts University Computer Science Department, Medford, MA

Teaching Assistant, Sep 2013-May 2014

- Advised in weekly labs to promote learning and clarify concepts
- Held office hours to foster a one on one tutoring environment
- Graded homework and projects to provide individualized feedback

Dover Middle School, Dover, NH

Technical Worker, Jun-Aug 2013

- Conducted the annual hardware upkeep and replacement
- Upgraded faulty hardware, installed and updated software