

# SAMUEL DANIEL

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## EDUCATION

### Tufts University

Bachelor of Science in Computer Science  
GPA: 3.13

Expected May 2014

## RELEVANT COURSES & PROJECTS

**Classes:** Operating Systems, Machine Structures and Assembly-Language Programming, GPU Programming for Scientific Applications, Internet-Scale Distributed Systems, Artificial Intelligence, Introduction to Computer Security, Physics 11 & 12 and Calculus II & III

Audited: Foundations of International Cybersecurity at the Fletcher School of Law and Diplomacy

### Projects:

**Internet-Scale Distributed Systems:** Design and implement a reliable file copying protocol for use over an unreliable network with unreliable hardware (C++)

**GPU Programming:** Implement a Levenberg Marquardt constraint-solving algorithm for use with fluorescence-lifetime imaging microscopy data (CUDA)

## TECHNICAL STRENGTHS

### Languages

C/C++, CUDA, Scala, Java, Python/Jython, HTML5, CSS3, Javascript

### Protocols, APIs, & Libraries

Akka, Unfiltered, Bootstrap, jQuery, Apache Commons, matplotlib

### Tools

Git, Unix, Linux, Ant, Maven, Jira, Photoshop, L<sup>A</sup>T<sub>E</sub>X

## EXPERIENCE

### DataXu

*Summer Intern*

May - August 2013

*Boston, MA*

- Wrote modules in Scala to gather metrics and performance information
- Used Skytap's cloud-based virtualization environments as a testing environment
- Created an internal web-app in Scala for customer-facing employees to interact with an HBase database
- Practiced test-driven development

### Human-Robot Interaction Lab at Tufts University

June - August 2012

*Medford, MA*

*Research Assistant*

- Collaborated with graduate students in their research
- Wrote algorithms and unit tests to analyze and process near infrared spectroscopy (NIRS) data using Java and Apache Commons Math
- Used Python/Jython with matplotlib to process and graph the data

### New Jersey "Y" Camps

2006 - 2011 (Seasonal)

*Astronomy Instructor*

*Milford, PA*

- Developed lesson plans utilizing computers and telescopes to conduct daily and nightly instructional sessions with campers aged six to sixteen
- Trained staff at sister camps to use telescopes, lenses, and star charts
- Promoted from assistant to instructor in 2010

### The Fork at Twin Lakes

2009 - 2011 (Seasonal)

*Shohola, PA*

*Bartender/Assistant Manager*

- Directed five person operating staff for catered events up to 200 guests
- Oversaw logistics of catered events (e.g. transportation, procurement, storage)

### Ginn Library, Fletcher School, at Tufts University

January 2012 - Present

*Medford, MA*

*Circulation Desk Aide*

- Assist library patrons in finding and checking in & out books and equipment

## INTERESTS & ACTIVITIES

DJ and Webmaster at WMFO - Tufts Freeform Radio

Tufts Hackathon 2012, 2013

Astronomy, Space Exploration, Science and Technology Policy, Science Fiction, Futurism, Film, Cybersecurity, Consumer Electronics Industry, Video Game Industry, Government and Politics, The Internet