

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 ^A T _E X

EXPERIENCE

DataXu <i>Summer Intern</i>	May - August 2013 <i>Boston, MA</i>
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- 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 <i>Research Assistant</i>	June - August 2012 <i>Medford, MA</i>
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- 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 <i>Astronomy Instructor</i>	2006 - 2011 (Seasonal) <i>Milford, PA</i>
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- 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 <i>Bartender/Assistant Manager</i>	2009 - 2011 (Seasonal) <i>Shohola, PA</i>
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- 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 <i>Circulation Desk Aide</i>	January 2012 - Present <i>Medford, MA</i>
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- 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