

# Dmitrij Petters

13 Seckle Street Unit #2  
Cambridge, MA 02141  
Phone: 425.681.2953  
dpetters@mit.edu

## EDUCATION

**Massachusetts Institute of Technology:** GPA 4.7/5.0  
Candidate for Bachelor of Science in Electrical Engineering and Computer Science  
Candidate for Master of Engineering in Computer Systems

**Cambridge, MA**  
Sep 2009 - May 2013

- SAT: 2150 SAT Math II: 800 SAT Physics: 800 ACT: 33
- Awards: Parsons Brinkerhoff National Scholarship, Sparling Company Scholarship and Bellevue Rotary Club Scholarship Recipient
- Relevant Coursework: Computer Systems, Compilers, Digital Communication Systems, Design and Analysis of Algorithms, AI

**Bellevue College:** GPA 3.98/4.0 (supplemented high school curriculum)  
Associate Engineering Transfer: Track 2 with High Distinction

**Bellevue, WA**  
Sep 2007 - Jun 2009

## WORK EXPERIENCE

**MIT CSAIL Program Analysis and Compilation Group**  
*VMWare Undergraduate Research and Innovation Scholar*

**Cambridge, MA**  
Sep 2012 - Present

- Applying ideas from failure-oblivious computing to extend Bolt, a program execution analysis tool, to handle memory corruptions which typically cause runtime exceptions in the application it is attached to.

**Microsoft**  
*Software Development Intern*

**Bellevue, WA**  
Jun 2012 - Aug 2012

- Collaborated with the Visual Studio development team to implement a topology-preserving graph layout algorithm for Bing Ranking's internal experimentation platform.

**Mozilla Corporation**  
*Native Android Mobile Engineer*

**Mountain View, CA**  
Jan 2012 - Feb 2012

- Investigated and fixed a number of bugs related to OpenGL rendering and the next-gen Firefox tablet native UI.
- Added power usage unit tests designed to catch spikes in CPU wake-ups using an automated power model from a paper by Google.

**Susquehanna International Group**  
*Technology Intern*

**Bala Cynwyd, PA**  
Jun 2011 - Aug 2011

- Designed and developed a Splunk-like log aggregation/analytics system on a Linux node cluster using Hadoop, HBase, Hive, Flume, Thrift and Zookeeper. Used Django for the front end. Allowed SQL-like querying of terabytes of log data of by user, machine, time, etc.
- Wrote MapReduce jobs over massive sets of tick data to compare wall and CPU times against same jobs running on the Condor cluster.

**Athena Capital Research**  
*Software Engineer Extern*

**New York, NY**  
Jan 2011 - Feb 2011

- Created a risk graphing utility which used trader log data to simulate past activity, transfer it into a cache, and graph long/short position, exposure and limits versus time. Used Highcharts, ExtJS for front end, Pion networking and Boost libraries in the backend.

**Thomson Reuters**  
*Software Development Intern*

**Eagan, MN**  
Jun 2010 - Aug 2010

- Worked as team member of the website vertical – fixed high priority bugs, developed new features, attended scrums/planning meetings.
- Developed a data-mining script that used a state machine to extract pertinent info from tens of thousands of 50MB+ logs.

## ACTIVITIES/LEADERSHIP

**Umeqo (.com)**  
*Founder*

**Cambridge, MA**  
Feb 2010 - Present

- Umeqo is a new way for students and employers to discover one another. Launched at MIT Fall 2011.
- Django app, uses Fabric, virtualenv, Apache Solr, hosted using Apache, Nginx & mod\_wsgi on Linode, collaborating over GitHub.

**Traders@MIT**  
*Exec Board*

**Cambridge, MA**  
Nov 2009 - Present

- Developed a commodity trading case for the Fall Trading Competition. Re-designed the website from the ground up (traders.mit.edu).

**MIT/ BHS Outdoor and Indoor Track and Field and Cross Country**  
*Varsity Runner*

**Cambridge, MA**  
Aug 2005 - May 2010

- 9:33 2 mile; 4:32 1 mile; Led BHS team to a 3rd place state finish, an improvement from previous 14th place finish.

## SKILLS AND INTERESTS

- Technical – Python (Django), C#, WPF, C/C++, Java, HTML5, CSS3, JavaScript (jQuery, ExtJs), Latex, bash, make
- Languages – Fluent in Russian and English
- Interests – Sailing, boxing, street hockey, running, and entrepreneurship