09/12/2011 Resume Book
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Umeqo

Dmitrij Petters

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Cambridge, MA 02139
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EDUCATION

Massachusetts Institute of Technology: GPA 4.8/5.0   **Cambridge, MA**
Bachelor of Science in Computer Science/Electrical Engineering & Mathematics   Sep 2009 - May 2013

- SAT: 2150   SAT Math II: 800   SAT Physic: 800   ACT: 33
- Awards: Parsons Brinkerhoff National Scholarship, Sparling Company Scholarship and Bellevue Rotary Club Scholarship Recipient
- Relevant Coursework: Software Construction, Digital Communication Systems, Intro to Algorithms, Computation Structures

Bellevue College: GPA 3.98/4.0   (supplemented high school curriculum)   **Bellevue, WA**
Associate Engineering Transfer: Track 2 with High Distinction   Sep 2007 - Jun 2009

WORK EXPERIENCE

Susquehanna International Group   **Bala Cynwyd, PA**
Technology Intern   Jun 2011 - Now

- Set up a Hadoop cluster on two dozen Windows nodes. Currently using mrjob to run workflows on both structured and unstructured data. The goal is to compare performance of the MapReduce tasks to traditional implementations running on the existing Condor setup.
- Wrote python and bash scripts to nightly create caches on the Condor cluster nodes using MySQL data logged from daily workflows.

Athena Capital Research   **New York, NY**
Software Engineer Extern   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, C++, Pion networking and Boost libraries in the backend.
- Wrote an ExtJS plugin to export GridPanels and its subclasses to CSV and XLS.

Thomson Reuters   **Eagan, MN**
Software Development Intern   Jun 2010 - Aug 2010

- Worked as team member of the website vertical - fixed high priority bugs, developed new features, attended design/planning meetings.
- Developed a data-mining script that used a state machine to extract pertinent info from tens of thousands of 50MB+ logs.
- Added a new, automated entry point into flagship product WestlawNext with check for Akamai & pinging of other servers.

RBM Technologies   **Cambridge, MA**
Software Engineer Extern   Jan 2010 - Feb 2010

- Developed the Ruby on Rails Mobile Visual Merchandising Manager app to allow retail workers to take digital pictures of fixtures and upload them as textures onto their respective floor plan 3D models.
- Programmed an automated RML based report using the RML2PDF conversion library which summarized nation-wide advertising campaigns for cellular firms such as Verizon, AT&T and T-Mobile.

MIT AgeLab   **Cambridge, MA**
Undergraduate Researcher   Oct 2009 - May 2010

- Combined PIL and ffmpeg to produce a video overlay that showed the exact spot in a driving simulation video at which a subject was looking at any given moment. The result was a proof of concept for a project that would allow a driver to make selections visually.

ACTIVITIES/LEADERSHIP

Umeqo(.com)   **Cambridge, MA**
Co-Founder/Developer   Feb 2010 - Present

- Launching the new recruiting resource for students and employers early September, with the Beta available for both parties late July.
- Developed the initial foundation for the site during the school year. Now collaborating with Zach Dearing and Joshua Ma over GitHub.

Traders@MIT   **Cambridge, MA**
Exec Board   Nov 2009 – Oct 2010

- Developing an OTC trading client that will be used for a trading simulation during the annual Traders@MIT competition in November.

MIT / BHS Outdoor and Indoor Track and Field and Cross Country   **Cambridge, MA**
Varsity Runner   Aug 2005 – May 2010

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

SKILLS AND INTERESTS

- Technical – Java, Python, Django, JavaScript, jQuery, ExtJs, CSS, LaTeX with minor experience in C++, bash, batch
- Languages – Fluent in Russian
- Interests – TED talks, poker, street hockey, and entrepreneurship

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Albert Kao

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Wisteria 2D, 2419 Hong Qiao Rd
Shanghai, China 200335

EDUCATION	**Massachusetts Institute of Technology (Cambridge, MA)**	Expected Graduation
	Candidate for B.E in Chemical and Biological Engineering, minor in Management	May 2012
	GPA: 4.8/5.0	
	Relevant Coursework: Differential Equations, Microeconomics, Organic Chemistry, Thermodynamics and Kinetics, Introduction to Chemical Engineering, Disease and Society in America, American Science: Ethical Conflicts and Political Choices	
	Phillips Exeter Academy (Exeter, NH)	Graduated
	Cum Laude	June 2008

EXPERIENCE   **MIT Belcher Lab (Cambridge, MA)**   June 2009-present
Undergraduate Researcher
- Worked in the Belcher Lab to develop a biologically-catalyzed CO_2 sequestration system to remove CO_2 from a power plant and convert it to carbonate minerals
- Implemented lab techniques such as amplifying and cloning vectors in yeast
- Created MatLab simulations to find theoretical values of carbonate precipitation
- Compiled data from experiments done and presented the data to a small lab audience

MIT Mechanical Engineering Lab (Cambridge, MA)   February-June 2009
Undergraduate Researcher
- Worked with post graduate student to find correlations between different SNPs with certain neurological diseases with QQ plots and manhattan plots
- Compiled and analyzed a large amount of categorical data

Hua-Shan Hospital (Shanghai, China)   Summer 2007
Intern
- Translated patient information for Chinese-speaking doctors
- Attended to about 8-9 patients per day

Deloitte Touche Tohmatsu (Shanghai, China)   August 2006
Intern
- Helped translate Accounting I and II Training Materials from Chinese to English
- Created a communication list that optimized interactions within the company

SKILLS   Fluent in oral and written Mandarin; proficient in Matlab; competent with Word, Excel, Powerpoint

LEADERSHIP   Phi Beta Epsilon Fraternity (Cambridge, MA)   October 2008-present
EXPERIENCE   *Treasurer*
- Solely responsible for summer residence, including recruiting over fifty people.
- Responsible for over $300,000 of transactions a year, including payments to several vendors, taxes, contract negotiation with our chef, and payment collection from over sixty members
- Organized financial files to make filing and locating documents more efficient

Camp Kesem Counselor (Camp Merrowvista, NH)   March 2009-present
- Cared for children whose parents have cancer over a one week period
- Helped raise over $20,000 to make camp free for all attending children

MIT's Chinese Student Club (Cambridge, MA)   January 2009-present
Secretary
- Compiled all events into a calendar for the semester; helped publicize events to MIT
- Assisted in organizing the annual New Year Banquet that attracts around 200 people

ACTIVITIES   Sloan Undergraduate Management Association Board, Eagle Scout, Basketball, Dance Troupe, MIT Undergraduate Practice Opportunities Program, MIT LeaderShape

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- Developed a data-mining script that used a state machine to extract pertinent info from tens of thousands of 50MB+ logs
- Added a new, automated entry point into flagship product WestlawNext with check for Akamai & pinging of other servers
- Crafted a set of interactive JavaScript widgets with custom form validation as well as a jQuery plug-in for e-mail text areas

RBM Technologies   **Cambridge, MA**
Software Engineer Extern   Jan 2010 - Feb 2010

- Developed the Ruby on Rails Mobile Visual Merchandising Manager app to allow retail workers to take digital pictures of fixtures and upload them as textures onto their respective floor plan 3D models
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MIT AgeLab   **Cambridge, MA**
Undergraduate Researcher   Oct 2009 - May2010

- Combined Python, PIL and ffmpeg to produce a video overlay that showed the exact spot in a simulation video at which a subject was looking at any given moment. Skewed gaze data had to be translated before use
- Researched the possibility of a heads up display projected on the windshield of a laboratory car, which, using the FaceLab gaze tracking system and data correction algorithms would allow a user to make selections visually

ACTIVITIES/LEADERSHIP

SBC (Sloan Business Club)   **Cambridge, MA**
Entrepreneurship Project Development Leader   Feb 2010 - Present

- Lead developer of SBConnect, a Django employer-student interaction webapp featuring events, invitations, resume book creation, etc.
  - Collaborating with a UI designer through GitHub, currently working on resume parsing, C++ search backend and AJAX filtering

Four Consulting   **Cambridge, MA**
Client Development Team Lead   Nov 2009 – Oct 2010

- Furthered the club's influence and the impact our work makes on non-student run organizations; worked on internal development case

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