

09/12/2011 Resume Book
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Umeqo

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Dmitrij Petters

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EDUCATION

Massachusetts Institute of Technology: GPA 4.8/5.0
Bachelor of Science in Computer Science/Electrical Engineering & Mathematics

Cambridge, MA
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)
Associate Engineering Transfer: Track 2 with High Distinction

Bellevue, WA
Sep 2007 - Jun 2009

WORK EXPERIENCE

Susquehanna International Group
Technology Intern

Bala Cynwyd, PA
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
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, 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
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 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
Software Engineer Extern

Cambridge, MA
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
Undergraduate Researcher

Cambridge, MA
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)
Co-Founder/Developer

Cambridge, MA
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
Exec Board

Cambridge, MA
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
Varsity Runner

Cambridge, MA
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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HRISHIKESH JOSHI

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Woburn, MA 01801

EDUCATION

Massachusetts Institute of Technology (MIT)
Candidate for B.S., Computer Science & Mathematics
GPA: 4.5/5.0 • Minors in Economics & Management Science

Cambridge, MA
June 2013

Plano Senior High School
GPA: 4.54/4.0 • Rank 3/1402

Plano, TX
June 2009

RESEARCH EXPERIENCE

Laboratory for Nuclear Science, Department of Physics, MIT
Undergraduate Researcher, Dark Matter Detection Group

Cambridge, MA
Jan. 2010 - Present

- Used CCD camera data, statistical analysis, and detector images to determine the sources of background alpha particle radiation in the dark matter detector
- Used UNIX operating system, LATEX, C++, Emacs, and ROOT 5.14 for data analysis

Department of Biology, University of Texas at Dallas
Research Intern

Richardson, TX
June 2008 - July 2008

- Studied crucial role of RNA editing in the mitochondrial gene expression of *Physarum Polycephalum*
- Methods used: centrifugation, gel electrophoresis, polymerase chain reaction, DNA/RNA priming, amplification techniques, southern blot, nucleotide sequencing software, etc.

Mathematical Analysis of the Sun's Differential Rotation
Independent Researcher

Plano, TX
Aug. 2004 - Mar. 2008

- Implemented novel techniques to determine the angular rotational characteristics of the sun's differential rotation using MDI images from NASA's Solar & Heliospheric Observatory

AWARDS AND LEADERSHIP

- North Texas Youth Honor Society, *Vice-President* (2008), *Secretary* (2007) Aug. 2006 - May 2009
- Science Skeptical Society, *Co-Founder* and *Vice-President* Aug. 2007 - May 2009

Computer Science:

Aug. 2008 - May 2009

- Winner of 2009 Annual Hewlett-Packard Competition
- Computer Science UIL Team, *Co-President*
- UIL Programming Examinations, Ranked Top 10 in State of Texas

Mathematics:

Aug. 2005 - Mar. 2009

- American Invitational Mathematics Examination, 2-time qualifier, Ranked 1st in School
- Interests: number theory, prime number distribution, Riemann functions, etc.

Science Fair:

Aug. 2004 - Mar. 2008

- Texas State Science Fair, 2-time qualifier
- Grand Prize Winner of Dallas Regional Science Fair (over 500 contestants)
- Discovery Young Scientist Challenge Semi-Finalist

SKILLS

Technical: C, C++, Python, Java, ROOT, LATEX, GNU Emacs, Microsoft Windows and Office

Foreign Languages: Fluent in Hindi and Marathi; 5 years of study in French