

09/07/2011 Resume Book
recruiter1@umeqo.com
Susquehanna International Group

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Dmitrij Petters

410 Memorial Dr. 431C
Cambridge, MA 02139
Phone: 425.681.2953
dpetters@mit.edu

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

University Address:
229 Vassar St.
Cambridge, MA 02139

HRISHIKESH JOSHI

hjoshi@mit.edu
(617).319.0244

Home Address:
11201 Inwood Dr.
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

Term Address
400 Memorial Drive
Cambridge, MA 02139

Albert Kao

alkao@mit.edu
(603)770-8225

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

EDUCATION

Massachusetts Institute of Technology (Cambridge, MA)

Candidate for B.E in Chemical and Biological Engineering, minor in Management

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

Expected Graduation
May 2012

Phillips Exeter Academy (Exeter, NH)

Cum Laude

Graduated
June 2008

EXPERIENCE

MIT Belcher Lab (Cambridge, MA)

Undergraduate Researcher

- Worked in the Belcher Lab to develop a biologically-catalyzed CO₂ sequestration system to remove CO₂ 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

June 2009-present

MIT Mechanical Engineering Lab (Cambridge, MA)

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

February-June 2009

Hua-Shan Hospital (Shanghai, China)

Intern

- Translated patient information for Chinese-speaking doctors
- Attended to about 8-9 patients per day

Summer 2007

Deloitte Touche Tohmatsu (Shanghai, China)

Intern

- Helped translate Accounting I and II Training Materials from Chinese to English
- Created a communication list that optimized interactions within the company

August 2006

SKILLS

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

LEADERSHIP EXPERIENCE

Phi Beta Epsilon Fraternity (Cambridge, MA)

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

October 2008-present

Camp Kesem Counselor (Camp Merrowvista, NH)

- 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

March 2009-present

MIT's Chinese Student Club (Cambridge, MA)

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

January 2009-present

ACTIVITIES

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

TERENCE HSU

University Address: 400 Memorial Drive, Cambridge, MA, 02139

Home Address: 75 Lee Street, Brookline, MA, 02445

(617) 571-6662 • terenceh@mit.edu

EDUCATION

Massachusetts Institute of Technology

Candidate for a S.B. in Mathematics with Computer Science

Candidate for a S.B. in Management Science

Candidate for a Minor in Economics

Coursework in Mathematics: Calculus I & II, Linear Algebra, Probability and Random Variables, Principles of Applied Mathematics

Coursework in Finance: Microeconomics, Macroeconomics, Finance Theory I, Management Communication

Cambridge, MA

Expected Graduation: June 2013

GPA: 4.4/5.0

Buckingham Browne & Nichols School

Diploma with Honors • GPA: 3.6/4.0 • SAT: 800 M 750 CR 780 W

Leadership: Peer Tutor President • Community Service Club President • Orchestra Concertmaster

Cambridge, MA

Sep. 2005 - June 2009

EXPERIENCE

Rackemann, Sawyer & Brewster

Litigation Intern

Boston, MA

Summer 2009

- Served as a research specialist for the litigation department, focusing on two main projects with regards to commercial real estate litigation.
- First project involved accounting of taxes and deeds of an estate in Nantucket. Work involved online research, collecting documents from courthouses, as well as compiling a database. Second project was a valuation of property holdings of parking garages in Boston. The analysis primarily called for modeling cash flows of the operation.

Natixx Private Equity Asia Limited (NPEA)

Analyst

Beijing, China

Summer 2010

- Duties for growth capital firm concentrated on industry research and financial analysis for two developing deals, with secondary goal on maintaining deal/investee databases, as well as modeling an efficient system for monitoring and updating movement on the Shenzhen and South Korean exchanges.
- Tasked by first deal team to research the fertilizer and colorized fertilizer bag industry in China. Regarding NPEA's prospective synthetic materials company, analysis focused on export potential, overseas regulations, and competitive angles against Indian manufacturers and rival Chinese companies.
- Under second deal team, analyzed R&D potential for an office supplies manufacturer for a premium brand-name American company. After research, gained perspective on many exporting Chinese manufacturers' common failure to establish brand recognition beyond the importing brand names and worked with deal team to consult investee on how to establish independence beyond the O.E.M. industry.

LEADERSHIP AND ACTIVITIES

Phi Beta Epsilon Fraternity, *Active Brother*

2009-present

- *Officerships:* Pledge Social Chair *Fall 2009*; Literary Chair *Fall 2010*

Sloan Undergraduate Management Association, *Board Member*

2009-present

- As a junior project manager, primary goal is to plan networking exclusives for business-minded MIT students. Important aspect of event-planning calls for forging and maintaining crucial sponsors and support among companies interested in cultivating students' interest in the various industries in finance.

MIT Resonance a capella, *Assistant Director*

2009-present

- Responsible solely for the musical aspect and direction of the group, which calls for leading training exercises, choosing concert set lists, reviewing and approving arrangements, conducting private teaching sessions, and using own musical insight and experience to lead the group to top performance quality.

*Volunteer Work: **Tenacity**, Tennis Instructor (2007-2009); **Graham & Parks School**, Tutor (2008-2009)*

AWARDS AND HONORS

- *High School Awards:* **Cum Laude Society** member (2009); **BB&N Citation of Honors** Recipient (2009); **National AP Scholar** Winner (2008)
- *Musical Awards:* **Harvard Musical Association Awards** Grand Prize (Piano: 2007); **MTNA National Composition Competition** Third Place (2006); **MTNA Northeast Composition Competition** First Place (2006); **MMTA State Piano Competition** Podium Winner (1999-2009)

SKILLS AND INTERESTS

- **Programming:** Python • HTML • MATLAB • L^AT_EX
- **Software:** Excel • Microsoft Office • Adobe Photoshop • Adobe Dreamweaver • IDLE
- **Foreign Languages:** English • Cantonese (conversational) • French (advanced) • Mandarin (advanced)
- **General Interests:** Piano • Violin • Composition • Singing • Tennis • Cycling • Scuba Diving

Zachary R. Dearing

Campus Address

32 Hereford Street
Boston, MA 02115

Tel: (214) 923-0870
Email: zdearing@mit.edu

Home Address

207 N. Waverly Dr.
Dallas, TX 75208

EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (JUNE 2012): GPA 4.7/5.0

CAMBRIDGE, MA

Candidate for Bachelor of Science in Economics and Political Science

- *Relevant Coursework:* Principles of Microeconomics/Macroeconomics, Intermediate Macroeconomics, Finance Theory I/II, Accounting, Statistical Method in Economics, Single/Multivariable Calculus

EPISCOPAL SCHOOL OF DALLAS (MAY 2008): GPA 4.2/4.0 ACT 35/36

DALLAS, TX

- Salutatorian, National AP Scholar, National Merit Semi-Finalist

EXPERIENCE

GOLDMAN SACHS, AND CO

NEW YORK, NY

Summer Financial Analyst - Securities Division

Summer 2010

- Worked on deal structuring project exploring arbitrage opportunities between pricing of mortgage backed securities and underlying collateral value
- Analyzed a publicly traded company (\$600 mm market cap) to determine if it was undervalued enough to warrant being taken private

COMMUNICATION MEDIA ADVISORS

BOSTON, MA

Winter Consulting Analyst – Boutique Consulting and Investment Management Firm

Winter 2010

- Staffed on due diligence project for large investment bank evaluating cable markets in Southern U.S.
- Modeled future revenue streams, operating costs, and growth opportunities based upon market trends and demographics
- Worked on a team of six with founding partner to construct predictive models and the final compendium

CAPITAL IQ – A DIVISION OF STANDARD & POOR’S

NEW YORK, NY

Development Intern – Technical Product Specialist Team

Summer 2009

- Developed an application to manage over 70 virtual machines with approximately 100 global users
- Wrote application in C# integrating VMWare ESX Servers, Active Directory, and Windows Instrumentation Management
- Led team of four organizing meetings, deliverables, and managing work streams to get application in to production

MCCURLEY, ORSINGER, MCCURLEY, NELSON, & DOWNING

DALLAS, TX

Intern – Law Practice and Administration

Summer 2008

- Assisted legal teams with case preparation by investigating witnesses and constructing cross examination questions
- Managed the opening of 25+ bank accounts thorough evaluating banks, handling interactions, assisting with cash management
- Charged with tracking over \$2.5 million among accounts to ensure that proper deposit levels were maintained

MAVERICK CAPITAL

DALLAS, TX

Financial Analyst Intern – Operations and Hedge Fund Accounting

Summer 2007, August 2006

- Parsed key information and consolidated funds’ prospectus for easier use by the senior traders
- Compiled over 10,000 past positions held and performance data to facilitate its use in a quantitative analysis project
- Maintained a 2,000+ item fixed asset register; supported the A/P group with Excel-based spreadsheet analysis

UNITED STATES SENATE

WASHINGTON, D.C.

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January - June 2007

- Facilitated voting procedure by ensuring senators voted and were informed on what issue was being decided upon
- Provided logistical support for senators and staff by assisting with any needs that they had while in the Senate Chamber

ZD-PCs

DALLAS, TX

Founder and Owner – Computer Assembly Business

July 2002 - September 2004

- Founded and ran a company with a total revenue of \$18,000 that built and sold custom computers direct to customers
- Designed a website application with CRM to spec custom computers online and provide real time quotes

LEADERSHIP

2012 RING COMMITTEE

CAMBRIDGE, MA

Co-Publicity Chair, Committee Member

2009– Present

- Shared responsibility for design, marketing, and production of MIT 2012 Brass Rat with committee
- Led publicity efforts for events with a combined budget of \$70,000 and attendance of 800 people each

Sloan Undergraduate Management Association (SUMA)

CAMBRIDGE, MA

Director, Corporate Relations Associate

Fall 2008 – Present

- Organized first-ever MBA panel with representatives from Harvard, Sloan, etc, secured a \$2,000 sponsorship from Kaplan

MIT UNDERCLASSMEN GIVING CAMPAIGN

CAMBRIDGE, MA

Co-Chair, Class of 2012

October 2008-Present

- Devised innovative fundraising strategy leading class to raise a record \$7000 this year to fund student service trips abroad with a 45% participation rate

INTERESTS/SKILLS

- Java, ASP .NET/C#, PHP, JavaScript, HTML
- Marathon Running
- Politics
- Chi Phi
- Golf
- Modern Architecture