

# MIRIAM MELNICK

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## OBJECTIVE

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A web development or product management internship for Summer 2012.

## EDUCATION

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Columbia University School of Engineering, New York, NY August 2011 - May 2013

*B.S. (expected) in Computer Science*

Participating in the 3/2 Combined Plan program (3 years at Simon's Rock + 2 years at Columbia)

Bard College at Simon's Rock, Great Barrington, MA August 2008 - May 2013

*B.A. (expected May 2013) in Computer Science, Mathematics; A.A. with distinction - May 2010*

Acceleration to Excellence Scholarship ('08-'10), Hutchins Fellowship ('10-'12), Dean's List, GPA 3.53/4.0.

Lexington High School, Lexington, MA

September 2006 - January 2008

G.P.A. 3.95 (unweighted, of 4.0)

## EXPERIENCE

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Columbia University, New York, NY

September 2011 - present

*Undergraduate Research Assistant (for course credit)*

Leading development of an administrative web interface through which professors can manage course assignments. Highly Addictive, socialLy Optimized Software Engineering under Prof. Gail Kaiser.

Lincoln Laboratory, Lexington, MA

June 2011 - August 2011

*Summer Research Program Intern*

Led development of document management interface for preparedness evaluation system under US Department of Homeland Security contract. Front-end web development (JavaScript and Ext JS). Integration with and specification of web services. Designed, developed, and documented system (UML).

Bard College at Simon's Rock, Great Barrington, MA

August 2010 - May 2011

*Computer Assistant (Information Technology Services)*

End-user support for Mac, Windows, and Linux systems. Troubleshooting, maintenance, malware removal.

SignChannel (of Scala, Inc.), Wellesley Hills, MA

May 2010 - May 2011

*Engineering Intern (full-time Summer, part-time academic year)*

Broad responsibilities included seconding most functions at this small firm. Front-end development (Javascript) and integration with MySQL (via django) to produce and ship production system. Customer-facing website usability testing and improvements, product testing, supplier management and compliance.

Thinking Screen Media, Wellesley Hills, MA

May 2009 - November 2009

*Quality Assurance/Test Engineer*

Responsible for quality assurance/testing of digital photo frames and for eliciting device manufacturer compliance. Managed status and test results of all products. Performed usability testing on corporate software products and sites.

### Other Internships:

Bard College at Simon's Rock: 01/09-12/09 - T.A.; Tutor in Spanish, Math; Tap Dance instructor

Harvard Business School, Allston, MA: 12/08-01/09 - Temporary: Exec. Ed. Marketing.

Urban Nutrition Initiative, Philadelphia, PA: 06/08-07/08 - Activity Programming Intern. (unpaid)

Broad Institute of MIT and Harvard, Cambridge, MA: 01/08-05/08 - Microbiology Intern. (unpaid)

## COURSE WORK

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CS: Programming Languages, Artificial Intelligence, Advanced Programming, Computer Organization, Theory, Scientific Computing, Data Structures & Algorithms, Computer Networking; Design: Computer Animation, Graphic Design, Web Development; Math: Algebraic Number Theory, Modern Algebra I-II, Vector Calculus, Discrete Math, Linear Algebra; Micro- and Macroeconomics; Physics I-II, Chemistry I-II.

## SKILLS

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Programming: Python, Lisp, C++, Java, C, O'CamI, MIPS assembly. Professional software engineering: Ant, Subversion, Git, Eclipse, UML. Usability, UI/UX: graphic design, building, testing. Web development: JavaScript, XHTML, CSS, Ext JS, Ajax, django. Strong understanding of networking, protocols in TCP/IP. Proficient in Spanish.