

ALEX P. MILLER
CURRICULUM VITAE

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EDUCATION	The Wharton School, University of Pennsylvania	Philadelphia, PA
	Doctoral Candidate, Operations, Information, & Decisions Concentration: Information Systems	2015 – Present
	Clark Honors College, University of Oregon	Eugene, OR
	Bachelor of Arts, Mathematics, <i>summa cum laude</i> , ΦBK Cumulative GPA: 4.02 (3.95 without counting A+)	2008-2012

**HONORS &
AWARDS**

- *Oregon Six* (2012) - Designated by Oregon's Phi Beta Kappa chapter as one of the top six (of 4,500) graduating students in the class of 2012.
- *Undergraduate Research Fellowship* (2012) - Awarded to three University of Oregon students each year for advanced undergraduate research projects.
- *Curtis Scholarship* (2011) - Departmental award for outstanding achievement in mathematics by a continuing student.
- *Stevenson Prize* (2012) - Departmental award for senior in mathematics with interest in teaching.
- *Distinguished Honors Research Thesis Defense* (2012) - Awarded for theses that are clearly in top 10% and comparable to competent graduate work
- *Math Department Honors* (2012)

**INDUSTRY
EXPERIENCE**

04/2014–08/2015	<i>Full Stack Developer, Data Scientist</i> SmartyPal, Philadelphia, PA Principal backend developer and data scientist at ed-tech startup.
1.5 yrs.	<ul style="list-style-type: none">• Co-authored successful Small Business Innovation Research grant from the National Science Foundation, resulting in nearly \$900,000 of non-dilutive funding to the company• Won the 2015 MongoDB Innovation Award in Education. (Previous year's recipient was LinkedIn; 2015 co-recipients in other categories include Facebook, Expedia, Pebble Watch, and Gap Inc.)• Developed and engineered logic for personalized adaptive learning platform based on item response theory and multi-armed bandit techniques• Designed and programmed entire server-side API including data collection, storage, and processing (in Linux, PHP, Python, R)

- Made substantial contributions to fundraising, design, and marketing efforts including digital ad management and web analytics.

10/2012–04/2014 *Digital Marketing Specialist*

1.5 yrs.

Adpearance, Portland, OR (by telecommute)

Primary analytics, A/B testing, and search engine optimization specialist.

- Initiated, developed, and managed two core service offerings–A/B testing and Automotive SEO–the latter of which received certification from Chrysler LLC’s digital marketing program
- Developed an automated JavaScript-based page generator for Auto SEO service
- Added novel keyword research method, semantic markup, enhanced analytics tracking, and site speed optimization to SEO services

PROGRAMMING

SKILLS

Computing: Python, R, MongoDB, SQL, Mathematica, Sage, Linux

Markup: HTML/CSS/JavaScript, \LaTeX