

Patrick McGuire  
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## EDUCATION

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<b>Columbia University</b> <i>Bachelor of Arts in Computer Science</i> (Artificial Intelligence Track) 3.0 GPA, Deans List Fall 2009, Spring 2010	<b>New York, NY</b> Aug 2007 - December 2011
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## WORK EXPERIENCE

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<b>Castile Ridge Media</b> <i>Software Engineer</i>	<b>New York, NY</b> January 2012 – Present
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- First technical hire, built Facebook Ad management and analytics platform from scratch using Ruby on Rails, jQuery, and PostgreSQL
- Generally responsible for system-level and statistical aspects. Designed and implemented on Rackspace easy communication between database, memcached, redis, and custom socket-based statistical tools across a half-dozen servers through SSH tunnels
- Built tools for automatic keyword suggestion based on Latent Semantic Indexing and automatic bid adjustment based upon time series analysis

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<b>MoreBeerMoney.com</b> <i>Cofounder</i>	<b>New York, NY</b> January 2011 – June 2011
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- Built site that took a course schedule and gave links to the lowest used and new prices among the various retailers (Amazon, Chegg, eBay, and others)
- Scraped course textbook information for every course at over 10 schools, most of which used their own systems

## GITHUB (<https://github.com/patrickmcguire/>)

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- StartupNYC, a site for startup jobs allowing filters by stage and technical ability (<http://startupnyc.org/> and <https://github.com/patrickmcguire/realstartupjobs>)
- BwogStats, a site which offers various Natural Language Processing analyses (ngrams, concordances) on a popular Columbia blog (<http://bwogstats.com/> and <https://github.com/patrickmcguire/hivemind/>)
- ReduceIO, a framework for parallelizing statistical computation, written in Scala on Twitter Storm. (<https://github.com/patrickmcguire/reduceio>, built with <https://github.com/velvia/ScalaStorm>)

## OTHER

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116 <sup>th</sup> Annual Varsity Show, Columbia University <i>Head Writer</i>	<b>New York, NY</b> Fall 2009 - Spring 2010
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- With one co-writer, created script and plot for full-length musical
- Collaborated with others in producing, directing, composing, and acting roles over six month, \$66k production process