Michael Murray

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EDUCATION **Massachusetts Institute of Technology**, Cambridge, MA (2003 - 2007)
- BSc degree in Computer Science and Engineering
- Relevant coursework in Software Engineering: Lab in Software Engineering, Introduction to Algorithms, Software Development for Internet Applications, Artificial Intelligence, Structure and Interpretation of Computer Programs, Computational Structures, Computer System Engineering, Mathematics for Computer Science, Computer Graphics, Digital Electronics Lab

EXPERIENCE **Schematic Labs** - *Director of Engineering* (September 2013 - Present)
- Principal engineer on new social jukebox product - implemented new software stack utilizing real time capabilities of Node.js, Socket.IO and Redis pub/sub
- Architected and developed the next generation music platform responsible for ingesting, collating and optimizing complete music catalogs from iTunes and Rdio
- Researched and implemented large refactorings and performance optimizations across full stack
- Developed various platform APIs in use across iOS, Android and Web clients
- Technology Used: Ruby, Rails, Javascript, Node.js, Redis, MongoDB

Blurb Inc. - *Director of Engineering* (July 2009 - September 2013)
- Lead engineer on Blurb's new online bookstore with a focus on social integration and discovery
- Led Blurb's digital book initiative which included: developing conversion pipeline for all existing books to ePub format, designing the internal book format for ongoing conversion and integration with iBookstore for distribution
- Designed and engineered the pdf rendering engine for Bookify
- Re-architected Blurb's search offering using Sphinx and then Solr
- Architected and developed a distributed message queuing system for all asynchronous processing
- Technology Used: Ruby, Rails, Java, Javascript, Redis, PostgreSQL, Solr, Sphinx, BDD, iText

Howcast Media Inc. - *Principal Engineer* (Jun 2007 - July 2009)
- Founding member of the engineering team in a fast-paced start up
- Architected, developed and launched a distributed, collaborative website for instructional media
- Responsible for leading ongoing software design and architecture, database design, deployment and release management, scaling and optimization, brainstorming product features and direction, researching web technology and recruiting
- Technology Used: Ruby, Rails, SQL, BDD, Capistrano, nginx, Mongrel, Memcache

MIT Computer Science Department - *Software/Hardware Design Engineer* (Jun 2005 - Jun 2007)
- Developed software for automatic, dynamic assembly of software components for user-specified goals
- Designed and implemented an extensible hardware framework in FPGA's to allow graphics to be displayed on a VGA screen
- Technology Used: Linux, Python, Verilog

Apple Inc. - *Software Engineer* (Jan 2005)
- Created a testing suite, web application to analyze messages sent between PowerSchool servers
- Released a functioning product to be used by the Quality Assurance department
- Technology Used: Mac OSX, Java, JSP, HTML

SKILLS
- Ruby, Rails, Java, Javascript, Node.js, SQL, NoSQL, Python, iOS, LaTeX

AWARDS
- Ironman Lake Tahoe 2013 Finisher
- Award for "Best Graphical Interface and Most Usable Product" in MIT Software Engineering Lab
- Irish National Judo Champion

INTERESTS
- Triathlon, Brewing Beer, Skiing, Rock Climbing
- Poker, BlackJack
- St. Anthony Hall / Delta Psi Fraternity President