# Jeremy L. Rubin

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## Education

**Massachusetts Institute of Technology (MIT)**                                          *Cambridge, MA*
*Master of Engineering in Electrical Engineering and Computer Science*                          *June 2016*
*With concentration in Computer Systems*
*5.0/5.0 GPA*
*Bachelor of Science in Electrical Engineering and Computer Science*                          *June 2016*
*With humanities concentration in Comparative Media Studies*
*4.5/5.0 GPA*

**Phillips Exeter Academy**        *Exeter, NH*        **UCSB**                *Santa Barbara, CA*
*9.64/11.0 GPA*                *June 2012*        *4.0/4.0 GPA*                *R.M.P. 2010*

## Experience

**MIT Digital Currency Initiative @ Media Lab**                                          Cambridge, MA
*Cofounder & Senior Technical Advisor*                                          *March 2015 to May 2016*
  – Created a research initiative to bring more focus at MIT on Digital Currency

**MIT Bitcoin Project**                                          Cambridge, MA
*Technical Director*                                          *March 2014 to May 2016*
  – Created and ran an initiative which gave every MIT undergrad $100 in Bitcoin

**Tidbit**                                          Boston, MA
*Founder*                                          *November 2013*
  – Developed a platform to monetize without ads with cryptocurrencies like Bitcoin

**Jane Street Capital**                                          New York, NY
*Software Development Intern*                                          *January 2014*
  – Implemented in OCaml an Atlassian Jira plugin for command line access with Kerberos authentication

**Nokia**                                          Sunnyvale, CA
*Engineering Intern*                                          *Summer 2013*
  – Data mining and machine learning under Taneli Mielikinen with the Emerging Platforms group
  – Hardware and software prototyping under Kent Lyons' and Sean White's Interaction Ecologies group
  – Operated as product manager and embedded system engineer designing and building a Barbot with the Nokia Sunnyvale interns as a part of the Advanced Engineering group

**MIT Media Lab Viral Spaces**                                          Cambridge, MA
*Undergraduate Researcher*                                          *June 2011 to June 2013*
  – Developed Graffiti Codes, mobile app for encoding messages to drawings via graffiti gestures
  – Implemented video playback support on Junkyard Jumbotron: web app for linking internet-enabled devices together as one screen

**Azapa: Electric Motorcycles**
*Software Engineering Intern*                                          *Summer 2012*
  – Wrote a simulated annealing algorithm to optimize battery pack layout by minimizing variance

## Publications & Presentations

**What the #?!* is Bitcoin?**                                          TEDxBeaconStreet 2014
**Loupe: a handheld near-eye display**                                          UIST 2014
*Proceedings of the 27th annual ACM symposium on User interface software and technology*        *October 6, 2014*

## Awards

**Patrick J. McGovern, Jr '59 Entrepreneurship Award 2015**
**Node Knockout 2013**                Most innovative award for Tidbit
**MIT Pokerbots Competition 2013**        2nd place in artificial intelligence poker tournament new team bracket

## Relevant Coursework

### Computer Science

| | |
|---|---|
| **Parallel Computing** | *6.338* |
| **Large-Scale Systems** | *6.S897* |
| **Certified Systems Software** | *6.888* |
| **Undergraduate Advanced Project** | *6.UAP* |
| **Distributed Systems** | *6.824* |
| **Computer Systems Security** | *6.858* |
| **Operating System Engineering** | *6.828* |
| **Design and Analysis of Algorithms** | *6.046* |
| **Introduction to Machine Learning** | *6.036* |
| **Introduction to Algorithms** | *6.006* |
| **Elements of Software Construction** | *6.005* |
| **Mathematics for Computer Science** | *6.042* |
| **MIT Pokerbots Competition** | *6.S912* |
| **Web Programming Competition** | *6.470* |
| **Introduction to EECS I & II** | *6.01 & 6.02* |

### Mathematics

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|---|---|
| **Introduction to Theory of Numbers** | *18.781* |
| **Probability and Random Variables** | *18.600* |
| **Linear Algebra** | *18.06* |

### Electrical Engineering

| | |
|---|---|
| **Princ. of Electronic Music Ctrlrs** | *MAS.837* |
| **Constructive Computer Architecture** | *6.175* |
| **Microcomputer Project Lab** | *6.115* |
| **Computation Structures** | *6.004* |

### Comparative Media Studies

| | |
|---|---|
| **Internet as a Social Artifact** | *CMS.s62* |
| **Introduction to Civic Media** | *CMS.360* |
| **Modeling Reddit Ind. Study** | *CMS.603* |
| **Media Systems & Texts TA** | *CMS.400* |
| **Mobile Technology** | *21W.789* |

### Economics

| | |
|---|---|
| **Game Theory and Social Behavior** | *14.11* |

### Physics

| | |
|---|---|
| **Electricity and Magnetism** | *8.022* |
| **Classical Mechanics** | *8.01* |

## Relevant Skills

**Languages** – *Python, Haskell, OCaml, Go, Julia, Java, C, C++, Assembly, Coq, JavaScript, Ruby, Pig/Hadoop*
**Embedded Systems/Mobile** – *8051-Family, PSOC, Arduino, Raspberry Pi, Android*
**Web Dev.** – *CSS, HTML5, jQuery, Bootstrap, Yesod, Tornado, beego, Rails, node.js, SQL/NoSQL, nginx*

## Media & Links

**GitHub** – https://github.com/JeremyRubin
**Twitter** – https://twitter.com/jeremyrubin
**Keybase** – https://keybase.io/jeremyrubin
**Web** – http://rubin.io
**LinkedIn** – http://www.linkedin.com/in/jeremyrubin

**MIT Bitcoin Project** – http://mitbitcoinproject.org
**Loupe** – http://dl.acm.org/citation.cfm?id=2647361
**Tidbit** – http://bit.ly/1tqjx87
**Pizza Predictor** – http://randomacts.media.mit.edu
**Barbot** – http://500sw.github.io/intro
**Graffiti Codes Article** – http://bit.ly/11kaZBE
**Junkyard Jumbotron** – http://bit.ly/16fmPzo

## Other Activities

**Student Information Processing Board** – *Member*
**Phi Kappa Theta Fraternity** – *Brother*
**MIT TechX/Techfair** – *HackMIT Dev. 2013-2014*
**MIT Varsity Squash** *2013 Season*

**Longboarding, Unicycling, Road Cycling
Photography**