

# Thomas Alcorn

## Software Engineer

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### Thomas Alcorn

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### Skills

I am full-stack software craftsman with a passion for building strong foundations. I have written Golang, Python, Javascript/Node and Java. On the side, I play with compilers. Sometimes I make computer art.

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### Experience

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#### Flux.io / Software Engineer

November 2015 - November 2017, SAN FRANCISCO

I worked on backend services, infrastructure, deployment and ops. I designed and implemented new user-facing services and improved existing ones. I also built front-end infrastructure that we open-sourced.

#### Everquote / Data Scientist

August 2014 - October 2015, BOSTON

I built data ingestion and ETL pipelines to support my analytics work leveraging in-house data to predict user response to ads. I also worked on a real-time ad auction bid server and built landing pages.

#### MIT / Research Assistant

May 2011 - December 2012, CAMBRIDGE

Designed and tuned nano-scale photonic crystals using advanced simulation software to demonstrate photonic signal processing in hardware, with applications in photonic computing.

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### Education

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#### MIT / B.Sc. in Mathematics with Computer Science

September 2010 - June 2014, CAMBRIDGE

I studied algorithms, theoretical computer science, software design, graph theory, chaotic systems, quantum mechanics, pure mathematics, artificial intelligence and internet policy.

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### Papers

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#### Legitimizing Bitcoin: Policy Recommendations

Ethics and Law on the Electronic Frontier, December 2013

<http://groups.csail.mit.edu/mac/classes/6.805/student-papers/fall13-papers/bitcoin.pdf>

#### High-efficiency degenerate four-wave mixing in triply resonant nanobeam cavities

Physical Review A, May 2014

<https://doi.org/10.1103/PhysRevA.89.053839>