

Jeffrey Wu

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Summary: Full-stack developer with research experience and wishing to do good. Especially interested in keeping the world secure as technologies such as machine learning become more powerful.

Education

Massachusetts Institute of Technology
B.S. in Mathematics, **B.S.** in Computer Science
M.Eng. in Computer Science

Cumulative GPA: 4.8/5
May 2012
January 2013

Experience

- **Google Research** Software engineer Oct 2016 – Present
Worked on personalization from cross-product user history. Built general infrastructure (data pipelines, libraries, Tensorflow ops) supporting models for many different use cases and products. Implemented RNN models to replace bag-of-words models. In 20% time, ran experiments to study properties of generalization error.
- **Terminal.com** Founding engineer Jan 2013 – Oct 2016
Building cloud-based container infrastructure, for scientific computing and online education. Helped design and implement many core systems (e.g. main API, front-end, build/deployment, pricing) and oversaw their security and robustness. Saw company grow from 2 to 12, and managed a small team of engineers. Interfaced with clients, including Crunchbase, Stanford University, Codecademy, and Udacity. Company was sold to Udacity.
- **Probabilistic Computing Project** Master's student Nov 2011 – Jan 2013
Implemented a probabilistic programming language. Explored a new Gibbs sampling algorithm to make inference more efficient in very general settings. Work presented [at NIPS 2012]. [Source code] and [thesis].

Selected Side Projects

- **Vimflowy** Vim inspired outlining tool with many features. [Source] (Typescript) and [Demo].
 - **Hanabi simulation** Game engine for simulating hanabi strategies. [Source] (Rust).
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Skills

- Algorithms and distributed systems design
- Devops, e.g. AWS (or GCP), linux, containers
- CS theory and mathematics (2010 Putnam top 200)
- Front end, e.g. React frameworks
- Machine learning and Tensorflow
- Learning new skills