

Jeffrey Wu

jeffwu@alum.mit.edu
858-405-1376

wuthejeff.com
github.com/WuTheFWasThat

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

- **OpenAI** Research engineer Aug 2018 – Present
Working on training large language models, including [https://d4mucfpksywv.cloudfront.net/better-language-models/language_models_are_unsupervised_multitask_learners.pdf], and on reward learning, focusing on summarization.
- **Google Research** Software engineer Oct 2016 – Aug 2018
Built general infrastructure (data pipelines, libraries, Tensorflow ops, and a DSL) supporting models for personalization from cross-product user history. Experimented with RNN models to replace bag-of-words models, and helped launch news feed personalization experiments. 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 across the stack and oversaw their security and scalability. 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, and state of the art bots. Cited in [DeepMind/Brain paper] and subsequently [interviewed for WSJ]. [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)
- Machine learning and Tensorflow
- Front end, e.g. React frameworks
 - Learning new skills