# 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.

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## Education

**Massachusetts Institute of Technology**                    **Cumulative GPA**: 4.8/5

**B.S.** in Mathematics, **B.S.** in Computer Science                    May 2012

**M.Eng.** in Computer Science                    January 2013

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## Experience

- **OpenAI** Research engineer                    Aug 2018 – Present
  Working on OpenAI's safety team.

- **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