

# Alex Nisnevich

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**Education**      **University of California, Berkeley**      2014  
Master of Science, Computer Science  
Focus in Artificial Intelligence and Natural Language Processing  
Thesis: *Probabilistically Modeling Semantic Change*

**University of California, Berkeley**      2013  
Bachelor of Arts, Double Major in Computer Science and Mathematics (*cum laude*)  
Minor in Linguistics

**Work Experience**      **Data Scientist**, Bayes Impact, San Francisco, CA      2016

- Built a deep learning model to predict hospital readmissions using EHR data.
- Spearheaded development of an interactive visualization showing California water usage predictions, calculated by a regression model trained on historical data.
- Designed and built a police use-of-force reporting portal for CA Dept of Justice.

**Software Developer**, Workday, San Francisco, CA      2014 – 2016

- As part of the SYMAN team, built an end-to-end machine-learning pipeline to predict employee retention risk, using the Spark big-data framework.

**NLP Engineer**, UPSHOT Data, San Francisco, CA      2014

- Worked on a natural-language interfaces for SQL databases, designing an ambiguity-reduction scheme to improve the robustness of a semantic CCG parser.
- After UPSHOT's acquisition, managed open-sourcing of core parser technology.

**Lead Developer**, Social App Lab at CITRIS, Berkeley, CA      2011

- Led development team of a social web application to encourage participatory democracy, by letting users voice questions and concerns about their city.

**Volunteer Experience**      **Teacher and TA**, RailsBridge, San Francisco, CA      2013 – 2014

- Taught introductory coding workshops aimed at underrepresented groups in tech.

**Portfolio**      [alex.nisnevich.com](http://alex.nisnevich.com) · [git.io/a-n](https://git.io/a-n)

**Personal Projects**      **Untrusted** · [untrustedgame.com](http://untrustedgame.com)      2013 – 2014

A JavaScript adventure game that requires players to modify its source code as they play in order to complete puzzles. Played over a million times, and used to help teach programming at schools and universities in Seattle, St. Louis, Scotland, and Ukraine.

**Buzzwords**      **Data** › Spark / pandas scikit-learn matplotlib / TensorFlow / Postgres Mongo / QGIS  
**Web** › React Redux / ES2016 / Node.js / websockets / Rails Sinatra / Apache nginx  
**Dev** › Linux OS X / Docker / zsh / Sublime / jupyter / pep8 eslint / AWS Heroku  
**Process** › Scrum / test-driven development / continuous integration and deployment

**Languages**  
(ordered by  
hrs. of experience)

