

Aleksandr Kamko

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> Education

B.S. Electrical Engineering and Computer Science (Spring 2016)

UC Berkeley, GPA 3.5

M.Eng. Electrical Engineering and Computer Science (Expected: Spring 2017)

UC Berkeley, Advisor: Prof. John Canny

> Experience

- **Financial Operations Engineering Intern @ Stripe** (Summer 2016)

+ Developing next generation infrastructure for Stripe's credit card authorization, clearing, and settlement systems.

- **Identity Team Intern @ Twitch** (Summer 2015)

+ Launched new, secure OpenID authentication portal. Designed and implemented standalone Golang tools for configs and i18n.

- **Language Technology Team Intern @ Facebook** (Summer 2014)

+ Analyzed large datasets of out-of-vocabularies (OOVs) in translation requests; developed web interface to flag and eliminate OOVs.

- **Graduate Student Instructor @ CS162 [Operating Systems]** (Fall 2016 - Present)

+ TA for Operating Systems course. Teach sections + labs, hold office hours, lead review sessions, develop section and test material.

- **Facebook University iOS Intern @ Facebook** (Summer 2013)

+ Led a team of 3 in building an iOS application. Built two standalone iOS apps and a web app at company-held hackathons.

> Selected Projects

- **M.Eng. Capstone Project: Scaling up Deep Learning on Clusters** [Scala, Spark, BIDMach, CUDA, EC2]

+ Building next gen, large-scale ML and Deep Learning system for GPU-enabled clusters. Advised by Prof. John Canny.

- **Octobear v1, a git Autograder Infrastructure** [git, GitHub, Python, MongoDB]

+ Designed and built v1 of git-based infrastructure + autograder used as a backbone for multiple courses. Replaced legacy svn system.

- **RE-volv.org** [Django, PayPal] ([demo: re-volv.org](http://demo:re-volv.org))

+ Wrote beta of Django web app for RE-volv, a nonprofit for crowd-sourced, revolving solar energy funding. (Ownership transferred.)

- **Alpha-Beta Pruning Algorithm Visualizer** [D3, Angular] ([demo: alphabeta.alekskamko.com](http://demo:alphabeta.alekskamko.com))

+ D3+Angular web app for visualizing and understanding the Alpha-Beta Pruning algorithm. Proved helpful to my 61B students.

- **tag** [Golang] ([source: github.com/aykamko/tag](https://github.com/aykamko/tag))

+ Command line tool written on spare time. A wrapper around ag (the_silver_searcher) that generates shell aliases for ag matches.

> Leadership

- **Blueprint Project Leader for Bizworld Team** (Spring 2016) (bizworld.org)

+ Led team of 5 in developing a tailored classroom management system. Launched globally, serving >500k students in >100 countries.

- **Blueprint VP of Tech** (Fall 2015) (calblueprint.org)

+ Maintained calblueprint.org. Developed multiple internal tools. Moved Blueprint to Phabricator. Advised project leaders.

- **Innovative Design Web Tier Leader** (Fall 2014) (innovativedesign.club)

+ Led a team of 6 developers and designers in improving web sites and brands for on-campus organizations.

> Skills

Proficient in: Python, Ruby, Javascript, bash, Golang, VimL, Java, git, GitHub, linux, vim

Experience in: Flask, Django, Rails, C, C++, iOS/Objective-C, Julia, SQL, mercurial, EC2

Exposure to: Node.js, PHP (Hack), Jenkins