

Aleks Kamko

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Experience

Infrastructure Engineer (Part-Time) @ [OpenAI](#)

(March 2017)

Scaled system for tracking computational resource consumption across company Kubernetes clusters.

Financial Operations Engineering Intern @ [Stripe](#)

(Summer 2016)

Developed 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 for users. Designed & implemented Golang tools for configs and i18n.

Language Technology Team Intern @ [Facebook](#)

(Summer 2014)

Diagnosed out-of-vocabulary (OOV) issues in translation systems. Developed web interface to flag & eliminate OOVs.

Graduate Student Instructor @ [Operating Systems](#)

(Fall 2016 – Spring 2017, 3 Semesters)

Taught sections and labs, held office hours, led review sessions, developed project, homework, test, and section material.

Selected Projects

Scaling up Deep Learning on Clusters, M.Eng. Capstone

[Scala, Spark, EC2, CUDA] <[github.com/BIDData](#)>

Developed large-scale distributed Deep Learning system optimized for GPU-enabled clusters. Advised by John Canny.

Octobear v1, a git Autograder Infrastructure

[git, GitHub, Python, MongoDB]

Designed & built git-based infrastructure + autograder used as backbone for multiple courses. Replaced legacy svn system.

RE-volv.org

[Django, PayPal] <[re-volv.org](#)>

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

tag

[Golang] <[github.com/aykamko/tag](#)>

Command line tool written on spare time. A wrapper around ag (silver_searcher) that enables quick jumping to ag matches.

Alpha-Beta Pruning Algorithm Visualizer

[D3.js, Angular.js] <[alphabetalpha.alekskamko.com](#)>

D3+Angular web app for visualizing and understanding the Alpha-Beta Pruning algorithm.

Education

M.Eng. Electrical Engineering and Computer Science, Data Science & Systems (Spring 2017)

UC Berkeley

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

UC Berkeley

Leadership

Blueprint Project Leader for Bizworld Team (Spring 2016) <[bizworld.org](#)>

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

Blueprint VP of Tech (Fall 2015) <[calblueprint.org](#)>

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

Skills

Proficient in: Python, Tensorflow, EC2, Linux, bash, git, GitHub, Golang, Ruby, Javascript, Java, VimL/vim

Experience in: Scala, Flask, Django, Rails, C, C++, iOS (Objective-C), SQL, mercurial

Exposure to: Julia, Node.js, PHP/Hack, Jenkins

Awards

Outstanding Graduate Student Instructor (Spring 2017)