Kasra Koushan

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EDUCATION:

University of Pennsylvania — Philadelphia, PA
School of Engineering and Applied Science — GPA: 3.61/4.00
B.S.E. in Computer Science — Expected Graduation: December 2018

EXPERIENCE:

Khan Academy — **Mountain View, CA**
Software Engineer Intern — May – Aug 2017

- Implemented mobile-responsiveness for the Missions feature, with 40k+ daily active users; wrote and analyzed A/B test with statistically significant increase (3%+) in multiple engagement metrics
- Built and styled new UI components in React for "Back to School" product launch; re-built page with 50k+ daily active users
- Implemented, conducted, and analyzed performance tests of various services of Google App Engine Flex and Standard, to inform architecture decisions. Source code at github.com/Khan/flex-perf-testing.

Over — **Cape Town, SA**
Mobile Engineer Intern — June – July 2016

- Developed prototype for an animation feature on photo-editing app Over
- Built a rendering engine that enabled users to add GIFs to the photo-editing canvas and manipulate the GIFs like static images

McGill Space Institute — **Montreal, QC**
Astrophysics Research Intern — May – Aug 2015

- Produced numerical models of exoplanet interiors using Python, finding relationships between central pressure, envelope entropy, and other parameters
- Supervised by Professor Andrew Cumming, CIFAR Fellow

PROJECTS:

Civil (Hackathon Project) — **July 2017**
Web app that transcribes a discussion and converts it into a tree of argument topics and sub-topics in real-time. Scoped out the project, developed JavaScript client for doing analysis on the transcribed text and forming the topic tree. Won $1000 Hacker's Choice Prize as a team of four at Greylock Hackfest 2017. Source code at github.com/cathykc/civil.

Berkman Internet Weather App — **February 2017**
React Native app built for the Berkman Institute of Harvard University to track and visualize internet censorship and usage data from around the world. Implemented data visualizations and several app views as part of a team of five (developers, designer, tech lead, and project manager). Source code at github.com/hack4impact/im_mobile.

NextTime Reminders — **November 2016**
Reminders app on iOS that sets reminders for general location categories, such as grocery stores, pharmacies, parks, as well as specific coordinates. Designed, developed, and launched individually to the App Store. Available for download at itunes.apple.com/us/app/nexttime-reminders/id1175039290. Source code at github.com/kasrakoushan/nexttime.

COURSEWORK:

Analysis of Algorithms, Databases, Software Design, Systems Programming, Computer Architecture, Theory of Computation, Real Analysis, Linear Algebra, Probability

ACTIVITIES:

Hack4Impact (hack4impact.org) – Exec Board
PennApps – Media Team
Online Coursework – Game Theory, Exoplanets
Out4Undergrad – 2016, 2017 Conferences
Teaching Assistant – Theory of Computation; Linear Algebra
The Daily Pennsylvanian – Photographer
Penn Persian Society – Norouz Banquet Organizer
The Signal (www.thesign.al) – Editor, Writer, Developer

SKILLS:

Proficient:	Python, JavaScript, HTML/CSS, Swift
Familiar:	Java, C++, SQL, LaTeX, MIPS Assembly, Verilog, MatLab
Tools / Environments:	React, React Native, JQuery, Node.js, Git, Bash, Vim, Google App Engine