

# 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**

Software Engineer Intern

Mountain View, CA

May – Aug 2017

- Developed optimization to make React Render Server multithreaded, reducing pageload times and rendering latency
- Implemented, conducted, and analyzed performance tests of various features of Google App Engine Flex and Standard, providing insight into which services to migrate to the Flex engine. Source code at <https://github.com/Khan/flex-perf-testing/>.

### **Over**

Mobile Engineer Intern

Cape Town, SA

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 other static images

### **McGill Space Institute**

Astrophysics Research Intern

Montreal, QC

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:

### **NextTime Reminders**

August 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 <https://itunes.apple.com/us/app/nexttime-reminders/id1175039290>. Source code at <https://github.com/kasrakoushan/nexttime>.

### **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, designers, tech lead, and project manager). Source code at <https://github.com/kasrakoushan/nexttime>.

### **iOS Base**

May 2017

Developed framework in Swift for building future iOS apps as part of Hack4Impact, a student organization that develops software solutions for non-profit clients throughout the US. Designed and implemented basic navigation, news feed, user login and sign-up features for faster development of future apps, as part of a team of four. Source code at <https://github.com/hack4impact/ios-base/>.

## COURSEWORK:

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

## ACTIVITIES:

**Hack4Impact** – Developer, External Relations Chair

**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](http://www.thesign.al)) – Writer, Editor, Developer

## SKILLS:

Proficient:

Python, JavaScript, Swift

Familiar:

Java, C, C++, LaTeX, MIPS Assembly, Verilog, MatLab, HTML/CSS, SQL

Tools / Environments:

Git, Bash, Vim, JQuery, React, React Native, Node.js, Google App Engine