

# ANDREW TRAN

FULL-STACK PRODUCT ENGINEER

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## PRINCETON UNIVERSITY

CLASS OF 2016 **GPA 3.54 / 4.0**

*B.S. Computer Science, minors in Architecture, East Asian Studies*

### COURSEWORK

ADVANCED COMPUTER NETWORKS (GRADUATE COURSE)	COMPUTER NETWORKS
ARTIFICIAL INTELLIGENCE	HUMAN-COMPUTER INTERACTION (COURSERA, UCSD)
INFORMATION RETRIEVAL AND DATA DISCOVERY	ADVANCED PROGRAMMING TECHNIQUES
COMPUTER GRAPHICS	PROGRAMMING SYSTEMS
ALGORITHMS AND DATA STRUCTURES	

## EXPERIENCE

### NEXTDOOR

**SOFTWARE ENGINEER INTERN (ANDROID) + KPCB FELLOW** SF - CA

**JUNE 2015 - AUG. 2015**

**Java [Android]**

Android engineer on the cross-functional core mobile team responsible for architecting both mobile clients and mobile API endpoints. /  
Worked on internal tooling that allowed client-side feature configurations for regressions. /  
Built test coverage reporting into the CircleCI + Gradle build configuration. /  
Lead Android engineer on initiatives to introduce synchronous private messaging and replace Instabug SDK dependency with an in-house solution. /

### HONG KONG FREE PRESS

**VOLUNTEER IOS ENGINEER** POK FU LAM - HONG KONG (REMOTE)

**JULY 2015 - PRESENT**

**Swift**

Volunteered my services to architect an iOS news reader shortly after the hotly anticipated and controversial launch of the HKFP web publication. /  
Scrapes and exposes news story data through an API endpoint hosted as a compute service. /

### HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

**SOFTWARE ENGINEER INTERN (ANDROID)** CLEARWATER BAY - HONG KONG

**JUNE 2014 - AUG. 2014**

**Java [Android], R**

Led the design and development of a new panoramic indoor navigation application for Android. /  
Led the redesign of the identity for the Wherami brand. /  
Refactored database queries made by a separate indoor positioning application being introduced at Hong Kong International Airport (HKG). /  
Designed and implemented an improved sensor fusion algorithm for inertial navigation in offline mode that reduced error to less than 7%, accumulating in a full demo presented to an audience at a press conference at Hong Kong's Cyberport. /

### GOOD ST.

**FULL-STACK ENGINEER** NEW YORK - NY

**JAN. 2014 - JUNE 2014**

**Rails, HTML/CSS/JavaScript**

Built a social layer on top of Good St.'s email-based subscription charity-giving platform by designing user profiles that displays a user's charities and impact. /  
Integrated the prior checkout system with the Stripe payment API. /

### FIRESTOP APP

**FRONT-END ENGINEER** NEW YORK - NY

**MAR. 2014 - MAY 2014**

**HTML/CSS/JavaScript**

Designed and coded the version of the website that was featured on The Next Web. /  
Illustrated a set of custom UI icons featured on the website. /

### OPENSESAME

**VENTURE HACKER** PORTLAND - OR

**JUNE 2012 - AUG. 2012**

**HTML/CSS**

Placed 1st among 12 interns in the number of sellers sourced and recruited onto the OpenSesame marketplace for online courseware. /

## PROJECTS

### CABIN PORN CHROME EXTENSION

**JAN. 2015 - PRESENT**

**HTML/CSS/JavaScript**

Inspiration for your quiet place somewhere. /  
An unofficial new tab extension inspired by the heroes behind cabinporn.com /  
Get a beautiful cabin every time you open a new tab. /

### SUBDUCTION

**JULY 2015 - AUG. 2015**

**Java [Android]**

An open source shake-to-feedback library developed for Android, iOS, and web during Nextdoor's internal 'Refine Week'. /  
Enables bug reporting through annotation and JIRA integration. /

### /SLASH/

**JUNE 2015 - PRESENT**

**HTML/CSS/JavaScript**

A little web app for rapid playback of Soundcloud favorites. /

### EQUALIZE.PY

**SEP. 2014 - JAN. 2015**

**Python, C**

A POX SDN controller that allows services to register clients that forward traffic to and from available servers on routes that significantly reduce latency bias between pairs of clients. /

### ENCHORD

**FEB. 2014 - JUNE 2014**

**MongoDB, Express, Angular, Node**

The Enchord web app gives guitarists a one-stop platform for composing, saving, and sharing their music. Work included implementing a custom markup language that fed into a realtime parser and visualization engine, and crafting a responsive mobile interface suitable for musicians on-the-go. /

## SKILLS

### PROGRAMMING

#### WEBSTACK

HTML/CSS/JAVASCRIPT  
RUBY ON RAILS  
DJANGO, FLASK  
LEARNING: NODE.JS, ANGULAR.JS

#### MOBILE

JAVA [ANDROID]  
iOS

#### SCRIPTING

PYTHON  
RUBY  
R

#### DESIGN

#### DISCIPLINES

UI/UX - WEB + MOBILE + PRINT

#### TOOLS

SKETCH

#### TECHNIQUES

RAPID PROTOTYPING