

# CATHERINA XU

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## EDUCATION

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### 2014-18 **Stanford University**

- GPA: 3.9/4.0, expected Bachelor of Science in Computer Science, minor in Economics
- Coursework: Programming Abstractions, Computer Systems, Contemporary Javascript, Android Development

### 2010-14 **Homestead High School**

- GPA: 4.0/4.0, SAT Composite: 2360
- Valedictorian, USA Biology Olympiad Semi-Finalist, National Merit Scholarship Finalist, National AP Scholar

## WORK EXPERIENCE

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### 2015 **Visa, Software Engineer Intern – Data Platforms**

- Created a multi-way file conversion software that will be used to translate over 500 Canadian Merchant Database (CMPD) files to Visa's standardized merchant repository format
- Utilized Yelp API to gather over 1 million records of restaurant data; clustered location data using Python sci-kit DBSCAN; trained Yelp comment sentiment-analyzer using a naive Bayes classifier and named entity recognition

### 2015 **Declaro, Growth Metrics Intern**

- Analyzed MixPanel and D3Analytics data to evaluate Declaro's search algorithm; co-authored a 6-page report that was utilized by the engineering, growth, and product teams
- Monitored the effectiveness of ongoing marketing campaigns through Google Analytics and Facebook for Business

### 2015 **Mobile Innovation Group, Research Assistant**

- Collected and analyzed data on Android application popularity, infrastructure, and monetization techniques for over 235 distinct applications; wrote Python scripts to normalize raw data collected from MixRank API scrapes
- Presented on how differences in Android / iOS IDEs and platform portability has impacted the mobile market

### 2013-14 **Stanford University, Research Assistant**

- Performed DNA extraction, quantification, and PCR reactions in the Francis lab; analyzed data in R to gauge the effects of oceanic warming on Antarctic phytoplankton
- Modeled evolutionary trends by using R to statistically analyze marine organism body-size data

### 2013 **Sewa International, Program Analyst Intern**

- Contacted and analyzed 9 local non-profits; co-authored a 10-page process handbook that included specifics about volunteer organization and the services that Sewa offers, including medical billing and emergency relief
- Recruited 38 new volunteers at the annual Sevathon Walk through face-to-face pitches

## PROJECTS

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### 2015 **UberPrepared, Hack the Planet** – SMS/Android interface that allows users to preschedule Uber rides

- Used Twilio Messaging, Google Geocoding, Uber API, and natural language processing to implement service

### 2015 **My Travel Diary** – Android app to visually document previous and future travel destinations

- Support add, delete, and update of map markers; uses SQLite for persistent storage

### 2015 **Wake Me Up, Treehacks** – Pebble/Android app that triggers watch vibrations within a certain radius of destination

- Created using Android Studio, CloudPebble, and Google Play Services API, won Dropbox Engineering award

### 2014 **CampusBubble, Accenture Hackathon** – iPhone app with real-time activity updates and bitcoin textbook exchange

- Developed in Unity3D and used BitPay/PubNub API to create features, won BitPay API award

## ACTIVITIES AND LEADERSHIP

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### 2014-16 **HackOverflow Coordinator, Stanford University Women in Computer Science**

- Co-organizing the annual HackOverflow hackathon for 100+ attendees in Spring 2016
- Pioneered "eCSpress yourself", a one-day career exploration conference and panel session for 40 high school girls

### 2015 **Equity Analyst, Stanford Blyth Fund**

- Pitched Chevron as part of the Energy and Natural Resources coverage group
- Worked to identify Chevron's growth factors by analyzing the profitability of current exploration projects

### 2013-14 **Vice President of Conferences, Future Business Leaders of America (FBLA)**

- Organized the Bay Section Leadership Conference, a high school business conference for 1000+ attendees
- Led 120 students to win CA Sweepstakes Award for top competition performance in business knowledge

## SKILLS AND LANGUAGES

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**Computer Skills:** C, C++, Python, Javascript, Java, HTML/CSS, Ruby on Rails, MATLAB, R, UNIX, Git, Mercurial

**Interests:** Badminton, vocal performance, mobile technology, hackathons, theater (improvisation)