

Feifan Zhou

Developer • Designer • Biohacker | CS '15 @Cornell

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Education

[2012 – 2015] *Cornell University*

Bachelor of Science, Computer Science

Business Focus

Kessler Fellow

Work Experience

[2015] *Senior Developer, The Simple Group*

REACT • AJAX • RUBY • JAVA

Built web UIs and refactored backend code for TSG, a microfinance fund. Translated open-ended features into front-end code optimized for cross-browser support and fast load times on high-latency, low-bandwidth connections in Latin America.

[2013 – 2015] *Cofounder (Developer, Product, Fundraiser), Tunetap*

REACT • AJAX • RUBY • JQUERY • REST • EC2 • RDS • STRIPE • NGINX • BASH

Tunetap helps musicians and venues pre-sell tickets to reduce risk and predict demand before committing to a show. Built production-scale, high-throughput product and blog. Also trained and managed 3 junior developers in building production Rails systems.

[2014 – 2015] *Director of Web Technologies, Cornell App Development*

HTTP • OAUTH • REST • NODE • RAILS • OBJECTIVE-C • SWIFT • BASH

CUAppDev gives students an opportunity to learn and build real apps. I helped start the team, grew to 30 members, built APIs integrating with Cornell IT and Spotify using Node and Rails, maintained documentation, and trained new developers

[2014] *Instructor, INFO 2310*

RAILS • REACT • REST

Taught Cornell University course on full-stack web applications with Rails and React.

[2013 – 2014] *Lead Developer + Designer, ArtZoco*

PHP • REST • REACT • STRIPE • APACHE SOLR • JAVA • BASH

ArtZoco brought peer-to-peer e-commerce to the developing world. I built our PHP MVC backend, designed and built React frontend, and optimized load times for low-bandwidth connections in South America

[2013] *iOS Developer, Splat Laser*

OBJECTIVE-C • HTTP • BASH

Splat brought videos games to the real world through smart hardware. I built a new menu interface and refactored the networking code

[2010 – 2014] *Author, Cups of Cocoa*

OBJECTIVE-C • WORDPRESS

CupsOfCocoa (sold to Binnpress in mid-2014) is a blog teaching iOS development from the ground up, with 75 articles and 500,000+ happy readers.

Essence

I'm a product engineer who likes to work at the intersection of people and technology. I passionately defend great ideas, but I'm willing to admit when I'm wrong. I obsess over details and process — removing friction and improving productivity. I'm strongly interested in learning and playing with the latest technologies, but strive to pick the right tools for every problem.

Software

Adobe Illustrator

Adobe Photoshop

Final Cut Pro X

Keynote

Motion 5

Sketch

Sublime Text

Xcode

Technologies

AWS: DynamoDB, ECS, RDS, S3, SNS

C (Systems programming)

Clojure

Docker

Git

HTML 5 + CSS 3

Javascript (ES6)

Node.js + Express

Objective-C

PostgreSQL

Python

Rails + Ruby

React + Flux + Redux + React Native

Swift

Terraform

Unix (bash)

Projects

[2015 – Present] **Stoat**

NODE • REACT • REACT NATIVE • REDUX • CLOJURE • WEBSOCKETS • NGINX • DOCKER • TERRAFORM • AWS ECS • DYNAMODB • S3

Stoat is an AI-powered personal assistant. The backend connects to a variety of APIs, and parses queries in the form of natural-language requests. Currently dogfooding with a private beta of 250 users. This ongoing project lets me explore and learn about AI/NLP, home automation/IoT, and modern web/devops technologies.

[2016 – Present] **GymLog**

REACT NATIVE • OBJECTIVE-C • CORE DATA

I created a simple app to track my workouts at the gym, and to gain experience with React Native. Coming to the App Store in early 2016.

[2015] **Push Your Website**

RAILS • OBJECTIVE-C • AWS SNS • EC2

PushYourWebsite allows any website to send native push notifications to iPhones via an HTTP webhook. Designed and built a web frontend and backend, and an iOS app to receive the notifications in 36 hours as part of Big Red Hacks, Cornell's annual hackathon. Winner of the "Best Use of AWS" award.

[2015] **Modern**

PYTHON • OBJECTIVE-C • ANGULARJS • AWS SNS

Modern is a mobile banking app and web interface for underbanked consumers and businesses in Latin America, as an extension of TSG (see Work Experience above). We designed and built a web frontend and backend, and an iOS client in 24 hours as part of Cornell's Fintech Hackathon. Winner of the "Next 10 Million Fintech Mobile Users" category. Currently in late-stage talks with the World Bank and VCs in Mexico for fundraising.

[2015] **IceFishing**

RAILS • SWIFT • OAUTH

IceFishing is the second project from CUAppDev. SnapChat + Spotify — users select a song-of-the-day, which appears in an ephemeral feed. Integrates with Facebook Graph API and Spotify API. Coming to the App Store in early 2016.

[2014 – 2015] **Eatery**

NODE • SWIFT

Eatery is the first project from CUAppDev — a calendar, menu browser, and mini social network for Cornell's dining halls. Coming to the App Store in early 2016.

[2014] **LeapJS Smart Gesture Recognizer**

JAVASCRIPT • CONVNETJS

A LeapJS plugin that uses machine learning (neural net using ConvNetJS) to learn and predict new, user-defined gestures.

Relevant Coursework

[2015] **Operating Systems**

PYTHON • C • MULTI-THREADING • HTTP • RPC

File systems, networking, memory, multi-threading, security

[2015] **Analysis of Algorithms**

Construct and analyze algorithms, incl greedy, dynamic, divide-and-conquer, network flow, NP completeness, approximation, and randomized

[2015] **Systems Programming**

C • MIPS ASSEMBLY • LOGISIM

Built a MIPS CPU, memory management, multi-threading, device drivers

[2014] **Foundations of AI**

Overview of topics in AI, built LeapJS Smart Gesture Recognizer

[2014] **Intro to Database Systems**

POSTGRESQL • MYSQL • NEO4J

Relational algebra theory, SQL, modern database technologies

[2014] **Information Retrieval**

Text processing/indexing, search engines, web crawling, ranking/clustering, modeling

[2014] **Data Structures & Functional Programming**

OCAML

Functional programming, map/reduce, currying, recursion, threads/async, unit testing

[2013] **OOP & Data Structures**

JAVA

Scope, recursion, generics, invariants, asymptotic complexity, trees, queues, heaps, graphs, search/sort

[2013] **Discrete Structures**

[2013] **Multivariable Calculus**

[2013] **Financial Accounting Principles**

[2013] **Design & Programming for Web**

[2013] **Managerial Finance**

[2014] **Probability Models & Inference**

[2014] **Engineering Probability & Stats**

[2014] **Managing & Leading in Organizations**

[2014] **Leadership Theory & Practice**

[2015] **Ubiquitous Computing**