

Charles Lai

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EXPERIENCE

Yelp Software Engineer

July 2016 - Present / San Francisco, CA

Worked on the ReaderX team to improve Yelp's core user experience.

Contributed to homepage and business page redesigns, activity feed improvements, launch of bookmark collections, and feature experiments.

Datadog Software Engineering Intern + hackNY Fellow

Summer 2015 / New York, NY

Worked on the Milky Way team to improve Datadog's core web experience.

Fixed XSS/SQL security vulnerabilities, created API endpoints to generate graph embeds, and updated open source Python/Ruby client libraries.

Verizon Information Technology Intern

Summer 2014 / Richmond, TX

Worked on the BI Team to help Verizon optimize business decisions.

Created a Python sentiment classifier on Salesforce Chatter data and analyzed the business metrics of an automated marketing tool.

GTA Information Technology Software Development Intern

Summer 2013 / Shenzhen, CN

Worked on the iQuant team to improve GTA's educational quantitative investment terminal. Developed technical indicator trading algorithms in Matlab and researched competing software.

ACADEMIA

CS 3410 Systems Programming TA

Spring 2015 - Fall 2015 / Cornell University

Taught concepts in digital logic, processors, memory, operating systems, and multicore architectures using Logisim, MIPS assembly, and C.

CS 1300 + CS 2300 Web Development TA

Fall 2014 - Spring 2015 / Cornell University

Taught beginner and intermediate web programming concepts in HTML, CSS, Javascript, HTTP, databases, and security on a LAMP stack.

ReImagination Lab Research Assistant

Spring 2014 - Fall 2014 / Cornell University

Worked on a goal achievement mobile application powered by Node.js that utilizes social accountability and regular check-ins to boost success.

Cornell Data Science Club Software Developer

Fall 2015 / Cornell University

Worked on a team to create a machine learning classifier using gradient boosted decision trees that predicts NBA games on a JS web app.

EDUCATION

Cornell University

Winter 2016 / GPA 3.62

BS in Computer Science

PROJECTS

Inari (2016)

Honors @ GDIAC, BostonFIG
iOS platforming game with a novel rotation mechanic and unique touch controls

Bitr (2015)

3rd @ Angelhacks Manhattan
iOS social and location-based content curation app utilizing a globally shared map

Venmo Dash (2015)

Braintree Prize @ MLH Finale
Financial analytics, graphs, and scheduled payments on a Node.js web dashboard

Gomoku AI (2015)

Javascript AI utilizing Negamax trees and alpha-beta pruning to play Gomoku

Session Manager (2015)

Java distributed session management with RPC, Gossip, & Amazon EC2/EBS

Distributed Page Rank (2015)

Scalable Java and Hadoop MapReduce framework for computing Page Rank

MIPS32 Processor (2014)

Logisim pipelined processor implementing the MIPS RISC instruction set architecture