

# DAVID CHEN

Software Engineer

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## Education

### Harvard College

B.A. in Computer Science

Secondary in Music

GPA: 3.83

Sept 2018 – May 2022 (*exp.*)

## Skills

### Languages

Python

JavaScript

C and C++

Java

HTML + CSS

OCaml

### Technologies

Git

Node.js

React + Redux

Deck.gl

D3

Docker

Django

## Awards

### Codestellation

Judge's Pick

Nov 10 2019

Best Web/Mobile Hack

Nov 4 2018

## Coursework

Intro to CS

Abstraction and Design in  
Computation

Multivariable Calculus

Statistics and Probability

Linear Algebra

Linear Algebra and Big Data

Discrete math

Computational Theory

Algorithms & Data Structures

## Experience

### Grove Collaborative

DXM

San Francisco, CA **Remote**

Systems Engineering Intern

Jun 2020 – Aug 2020

- Improved internal Docker-based web development platform (DXM) by integrating multiple services, including Elasticsearch and Memcached, automating multiple setup processes, adding debugging support, and revamping old code
- Created a local developer monitoring service using Prometheus from the ground up for company's main website

### Rocket Software

Zowe App Platform

Waltham, MA

Software Engineering Intern

Jun 2019 – Aug 2019

- Worked with React.js GraphQL, and i18N to enable various functionalities and improve application extensibility for a commercial web application for mainframe modernization and db2 querying
- Built a new web interface for mainframe visualization with filter, search, and manual collection creation capabilities for db2 database objects.

### Federal Reserve Bank of Boston

Boston, MA

Software Engineering Intern

Jul 2018 – Aug 2018

- Utilized Python + Tensorflow in a team of two to develop a facial recognition app
- Created algorithm to collect data (pictures) for training input and enabled real-time facial detection capabilities using OpenCV; end product deployed for use with bank security

### Federal Reserve Bank of Boston

Boston, MA

Software Engineering Intern

Jul 2017 – Aug 2017

- Used Amazon Web Services to develop an Alexa app to display public bank data and provide analytics by parsing internal JSON inputs based off of custom queries created from user input; end product presented to bank executives

## Extracurriculars

### CS50

Introduction to Computer Science Course

Cambridge, MA

Sept 2019 – Dec 2019

- Hold weekly sessions teaching students programming (including C, Python, HTML/CSS, Javascript, SQL) and core computer science concepts

### Harvard Crimson

School Newspaper

Cambridge, MA

Tech Associate

May 2019 – Present

- Aided in porting old codebase to new React.js framework by implementing shortcodes and creating custom article and page templates
- Manage django backend and GraphQL to work with new React.js framework

## Projects

### WikiWhere

🔗 <https://wikiwhere.org/> 📄 [wikiwhere/wikiwhere](https://wikiwhere.org/wikiwhere)

A graph-based visualization for Wikipedia articles (edges represent links). Features include finding shortest paths between two articles using bi-directional BFS that queries Wikipedia data dumps and traversing through linked articles. Technologies used include d3 for graph visualization, and JavaScript and C++ for the backend. Primarily worked with d3, getting everything to show up in the frontend.

### hackm.app

🔗 <https://hackm.app/> 📄 [hackmapp/hackmapp](https://hackmapp.com/hackmapp)

An interactive map of the previous, current, and upcoming MLH hackathons.

Technologies include Python and BeautifulSoup for web scraping, Express for the backend, and d3 for visualization. Worked with d3 in the frontend.