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 interal 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**
Course Assistant — 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*
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*
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.