

Harrison Brown

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Skills

Languages: Python (high proficiency), C (high proficiency), Java (proficient), C++ (proficient), Go (high proficiency)

Technologies: git (proficient), linux (proficient), heroku (proficient), aws (prior experience)

Experience

Freelance Software Developer Nov 2018 - Feb 2019

- Accomplished customer outreach measured by the 50% response rate by using batched emailing and multiple smtp servers

Personal Projects

apizza - (<https://github.com/harrybrwn/apizza>)

Open Source command line tool for ordering pizza from Dominos.

- Managed my open source project by utilizing unit tests, test coverage, CI/CD tools, and good software design principles.
- Utilized packet analyzers, browser dev tools, and computer networking knowledge in order to reverse engineer Dominos' private web API.
- Maintained 10,000 lines of code by using best practices like modularization, dependency inversion, single responsibility, limiting repetition, interface segregation, and simplicity.

hashmap - (<https://github.com/harrybrwn/hashmap>)

This is a personal research project to measure the performance of a hash tables

- Created a hashtable that handled 1,000,000 separate get, put, delete operations respectively in under 1 second using auxiliary data structures such as stacks, avl-trees, and bitmaps

harrybrwn.com - (<https://github.com/harrybrwn/harrybrwn.com>)

- Learned backend web development with Go as well as microservices
- Improved front-end web development skills (html, css, javascript)

Education

University of California Merced - Expected Graduation in Spring 2021

Computer Science and Engineering, B.S.

Relevant Coursework: Data Structures/Algorithms, Linear Algebra, Intro to A.I.

Activities/Leadership

ACM (Association for Computing Machinery) - General member

- Contributed to our ACM chapter website, a machine learning powered handwritten language translator, and various club events

Hackathons - Attended HackMerced at UC Merced and SD Hacks at UC San Diego

- Used web scraping and web APIs to build a tool to notify students as soon as classes they need are available