

# Harrison Brown

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## Education

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**University of California Merced** - Expected Graduation in Spring 2021

*Computer Science and Engineering, B.S.*

**Relevant Coursework:** Data Structures and Algorithms, Intro to Artificial Intelligence

**Technical Skills:** Python (2yrs), Go (1yr), C/C++ (0.5yrs), Java (2yrs), R (3yrs), git, docker

## Experiences

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**Freelance Software Developer** (November 2018 - February 2019)

Worked for a small local business to automate customer outreach.

- Needed a fast way to conduct customer outreach with a limited amount of customer data, and used email to do this
- Accomplished successful customer outreach measured by the 50% response rate by using batched emailing and multiple smtp servers

## Personal Projects

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**apizza** - (January 2019 - Present) (<https://github.com/harrybrwn/apizza>)

*Open Source command line tool for ordering dominos.*

- Managed a relatively large code base by modularizing code and testing
- Made API's small but effective to reduce technical debt

**hashmap** - (June 2019 - September 2019) (<https://github.com/harrybrwn/hashmap>)

*My personal implementation of a hash table. This is a personal research project to measure the performance of a hash table that uses avl-trees to chain collisions.*

- Used C to create a hashtable that can handle 3,000,000 separate get, put, and delete operations in under 0.8 seconds with string keys and integer values
- Learned auxiliary data structures such as stacks, linked lists, and trees along with they're algorithms

**www.harrybrwn.com** - (July 2019 - Present) (<https://github.com/harrybrwn/website>)

- Learned the basics of the bootstrap css framework
- Learned backend web development with Go
- *Improved* front-end web development skills (html, css, javascript)

**charlotte** - (August 2019 - Present)

*A C++ web-server built from scratch using only the C/C++ standard library.*

- Gained a deeper understanding of how the web works
- Learned low level networking protocols like IP, TCP, UDP, HTTP, and sockets.

## Activities/Leadership

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**Guitar Club** - *President and member*

- President of guitar club for 2 years in high school and a General Member for 3 years
- Member of guitar club at UC Merced for 1 year and president for 1 year

**Hackathon Participant** - *I have attended HackMerced at UC Merced and SD Hacks at UC San Diego*

- Collaborated with a group building tools that help students. Used web scraping and REST APIs
- Built a web based notification system that let people know when their classes are available and a scheduling manager