Harrison Brown

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Skills

Languages: Python (high proficiency), C (high proficiency), Go (high proficiency), Java (proficient), Typescript/Javascript (prior experience), C++ (prior experience)

Technologies: Git (proficient), linux (proficient), PostgreSQL (proficient), Oracle DB (proficient), heroku (proficient), aws (prior experience), GraphQL (prior experience)

Experience

Network Security Database Intern

Oct 2020 - May 2021

University of California, Merced

• Developed and maintained a real time monitoring system for routers and switches to catch potentially nefarious devices on the university research network using Oracle database 19c.

Web Developer

Feb 2020 - Aug 2020

Twist & Twirl Consulting

 Maintained and migrated websites between content management systems, developed websites, and automated database management.

Education

University of California Merced

Aug 2017 - May 2021

Computer Science and Engineering, B.S.

Personal Projects

mercedtime.com - (https://github.com/mercedtime)

- Full-stack web app to improve UC Merced's (UCM) course catalog by supporting course searches, filter parameters, calendar management, and notifications for course openings
- Got real-time synchronization and notifications by periodically parsing UCM's catalog webpage and storing the changes in Postgres
- Improved upon UCM's catalog webpage with good UI/UX by using React/Typescript with common UI libraries and a GraphQL backend API

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)

 Wrote a hashtable from scratch that handled 1,000,000 seperate get, put, delete operations each in under 500ms using auxiliary data structures such as stacks and avl-trees

Activities/Leadership

ACM (Association for Computing Machinery)

Sep 2018 - Present

General member

• Contributed to club projects such as the club Website and a event management discord bot **Hackathons**

HackMerced at UC Merced & 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