



James McDougall Jr.

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Profile

I am a computer engineering student at UC San Diego looking to enhance my skills at a Software Engineering Internship. I'm fascinated by low level computing and systems and how they relate to the IOT revolution.

Education & Skills

University of California, San Diego - Computer Engineering - Expected Graduation in 2021

Python, C/C++, Typescript, Java, Flask, Unix, Bash, Git

Experience

COMPUTER SCIENCE TUTOR

UCSD CSE DEPARTMENT

JANUARY 2019-PRESENT

- Assist students in debugging C++11 code, explaining data structures, and algorithms
- Answer questions in class and coordinate with professor to proctor/grade exams

BACKEND DEVELOPER

NIMBER, INC. - STUDENT GROUP

JANUARY 2019-PRESENT

- Design backend utilities in Python3 for a facial recognition application
- Use OpenCv computer vision library to extract facial features from images

WEB DEVELOPER

SIGNFISH - STUDENT GROUP

OCTOBER 2017-2018

- Used Stenciljs framework to develop login, account home, and services webpages
- Used Typescript to store private user data in Firebase (no-sql database)

DATA ANALYST

UCSD USE DEPARTMENT

JULY - SEPTEMBER 2018

- Using Pandas and NumPy, performed statistical analyses (t and z - tests) on data from a computer science education research project in a Jupyter Notebook
- Developed a written report of the analyses, describing research methods and communicating results

RESIDENTIAL ASSISTANT

UCSD RESIDENTIAL LIFE

SEPTEMBER 2018-PRESENT

- In committees, plan and advertise community events
- Help residents resolve disputes and plan community programs