

JACOB VAN DER LEEUW

STUDENT

Employment

MSRI-UP

Student Researcher

Tucson, AZ

June 2021 to July 2021

Participated in the MSRI-UP mathematics REU with the topic of parking functions. Worked with a team to research and create a paper, presentation, and poster on the work done. Also participated panels devoted towards research and graduate school

CyVerse

Student Software Engineer

Tucson, AZ

Mar. 2020 to May 2021

Worked to develop new and existing modules and libraries used by a CyVerse team in python. This involved coding in python, terminal, and git as well as github workflow configuration. Also became familiar with docker containers and virtual machines. One project involved developing an app via python's tkinter module in order to process geotiff image data and interface python and c code.

Harvey Mudd Summer Research

Student Researcher

Claremont, CA

June 2019 to July 2019

Worked for Harvey Mudd College's computer science department to develop maze and game visualizations in python to be used for introductory high school and college computer science classes. Also developed an AI maze solver which completes the mazes from a given configuration.

Harvey Mudd College

Computer Science Tutor

Claremont, CA

Sept. 2019 to Nov. 2019

Worked as a computer science grader and tutor for Harvey Mudd College's computer science department tutoring introductory python and java classes

Projects

Selenium Webscraping

June 2020 to July 2020

Wrote and Modified Code to use Python's Selenium module to build bots that could access a variety of websites and provide login information and messaging capabilities

Website

Dec. 2020 to Dec. 2020

Built a functional website as a final project for a web development class that used SQL to access a database of names and filter them based on information. This used a combination of HTML, CSS, Javascript, PHP, and SQL

Volunteering

Casa Maria · volunteer

Tucson, AZ

Jan. 2013 to Current

Volunteer once per month at a local organization which makes meals for charity

Contact

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Tucson, AZ

🔗 [jvanderleeuw/jvanderleeuw.github.io](https://github.com/jvanderleeuw/jvanderleeuw.github.io)

Education

Harvey Mudd College

Sept. 2018 to
Nov. 2019

Joint Major in Mathematics
and Computer Science

University of Arizona

Jan. 2020 to
Current

Mathematics 2022

Computer Science 2022

Skills

PROGRAMMING LANGUAGES

Python

Java

C

HTML

CSS

Javascript

PHP

LaTeX

Bash

WORKSPACES

Mac • Windows Terminal

Git

Virtual Machines

Docker

MATHEMATICS

Calculus

Linear Algebra

Differential Equations

Cryptography

Proofwriting