

Adam Walker

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Education

Harvey Mudd College, Claremont

Spring 2022

- BS, Computer Science; Psych Concentration; 3.95 GPA. Harvey S. Mudd Merit Award Recipient
- Grader & Tutor for CS 70 (Data Structures & Program Dev) and CS 42 (Principles & Practice of CS)
- Computability & Logic, Data Structures & Program Development, Principles of CS, Discrete Math, Linear Algebra, Differential Equations, Quantum Physics, Electricity & Magnetism, Mechanics

Experience

Bloomberg L.P., Remote: Engineering Intern, Trading Infrastructure

Summer 2020

- Built full stack web portal for internal management of RabbitMQ configuration
- Created React front end to speed up config changes, reduce typos & automate deployment pipeline
- Constructed DB models for storing config & implemented Django REST API connected to Postgres

Harvey Mudd, Claremont: Researcher, Physics of Soft Matter Lab

Spring 2020 – Present

- Model specific organism dynamics (ex. Mantis shrimp striking prey) as latch-mediated spring actuated systems & derive governing equations utilizing these simplified models
- Simulate organism movement by developing Matlab scripts & C++ programs for variety of latch, spring, frictional & material properties to better understand these organisms & their evolution

Stripe Inc, San Francisco: Engineering Intern, Dashboard Platform

Summer 2019

- Designed & implemented internal sandboxing environment for Stripe Dashboard search
- Built Ruby snapshotting pipeline for developers to restore a test data set using S3 and Elasticsearch
- Strengthened security by reducing developer exposure to personally identifiable information

Zappos.com, Las Vegas: Engineering Intern, Search Relevancy

Summer 2018

- Designed website supporting YouTube-style searching to discover 250k+ Zappos products
- Built database to store product info & developed Java Spring Boot back end to power the site
- Collaborated with Video Production team to design an intuitive front end user interface

World Cube Association: Delegate & Competition Organizer

Spring 2017 – Present

- Organize Rubik's Cube competition events throughout Western US with up to 400 in attendance
- Mentor new organizers through competition processes & coordinate event staff/volunteers
- Communicate with event venues, media, and competitors as a representative of the WCA

Skills

Proficient In: Python, Ruby, Web Development (RESTful APIs, Django, TypeScript, JavaScript, React, Redux), C++, Elasticsearch, S3, Arduino development, Matlab, 3D Printing

Familiar With: Docker, CI, RabbitMQ / AMQP, Postgres, Assembly, EC2, Java, Spring Boot

Projects

iPod Mods: Bluetooth modded click wheel iPod Classic. Developed scripts to manage music library.

Bowling Pinsetter & Scoring: 3D modeled/printed bowling pinsetter. Sold full java-based scoring system with GUI, Arduino-based triggering device & image processing to identify standing pins.

Int'l Science & Engr Fair: 3D modeled/printed & programmed white cane add-on for visually impaired. Won first place in engineering category at UNLV Regional Fair & invited to International Fair.

6502-based computer: Built 8-bit computer on breadboard. Programmed device in assembly.