

Employment

Test Engineer **Google X via Adecco** **September 2019 - Present**

- Assisted machine learning roboticists by helping with tooling, validation, documentation, and overseeing fellow engineers:
 - Created an additional library for automating the process of preparing and launching a server for robot tele-operation
 - Found, reviewed, and fixed numerous logical errors in code and pruned corrupted data used in the ml models
 - Performed data collection and benchmark evaluations to provide feedback on performance of new models
 - Oversaw the onboarding of new hires, and during the shelter in place provided support to QA engineers on remotely setting up and debugging their machines

Software Engineer **FileYourTaxes** **May 2018– August 2018**

- Wrote frontend and backend code while balancing the responsibility of developing the code base for nine different states
- Co-developed an algorithm for mapping OCR outputs (Tesseract and PdfToText) to various tax forms
- Setup various APIs
 - Imported data from Xero's Accounting API using the Oauth 1.0 protocol
 - Issued refunds through prepaid debit cards with Green Dot Banking
- Improved functionality of company's in house form editing Java application
 - Added undo/redo stack, click-drag select, translation and scaling of graphical overlay boxes representing form print data

Substitute Teacher **Kern High School District** **January 2016– May 2018**

- Managed and taught a variety of students for all subjects of math or science
- Implemented lesson plans and managed classes while meeting various teacher and school expectations and policies

Education

College of Creative Studies **UCSB** **Fall 2010 – May 2014**

- Mathematics Major, College of Creative Studies (CCS), Cumulative GPA of 3.0
- Studied a wide breadth of subjects of math, and well versed in proof based mathematics and problem solving

Technical Experience

- Javascript Projects:
 - Built an irc chat bot using a Nodejs irc library with a Markov chain model for responses
 - Created visual art based off mathematical abstractions using the javascript canvas layer
- Senior Thesis on Dipole-Dipole interactions:
 - Coded the foundations for a simulation of magnetic nano particles in a solvent, implementing an octree method to reduce computational cost of finding particles located within a three dimensional disc or ring
- Wrote various numerical algorithms such as linear multi-step, Runge-kutta methods, and an adaptive step size method in Matlab

Languages and Technologies

- Programming Languages: Javascript, Perl, Python, C++, C, Java, Haskell, Go
- Linux: Leveraged various command line interface tools and scripts to accomplish, automate, and solve routine tasks and problems.