

RUBY WERMAN

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EDUCATION

University of California, Berkeley, CA

August 2018 - May 2022 (expected)

Bachelor of Arts, Computer Science

GPA: 3.64

Relevant coursework: Creative Programming and Electronics, Data Structures, Designing Information Devices and Systems I, Discrete Math and Probability Theory, Foundations of Data Science, Computer Architecture

WORK EXPERIENCE

Major League Hacking, Remote

May 2020 - Present

Software Engineering Fellow

- Selected from over 20,000 applicants to be part of the inaugural class of 100 MLH Fellows powered by Github (.5%)
- Implemented solver into Scikit-Learn's Logistic Regression classifier that reduced memory 93.8% in certain use cases
- Developed automated tests for new features using pytest and improved documentation
- Worked collaboratively with other developers via Github

Goodly Labs, Berkeley, CA

February 2020 - Present

Research Apprentice

- Participated in the Undergraduate Research Apprentice Program under Nobel Laureate Saul Perlmutter
- Gained first-hand experience building, refining, and launching Public Editor, a national-scale data science project that engages thousands of public volunteers and news readers
- Lead a small team focused on user experience; developed a community forum and gamification elements

University of Chicago Center for Data and Computing, Chicago, IL

June - August 2019

Research Intern

- Developed Python application for labeling cloud images for a deep neural network
- Created Python script to accelerate data acquisition from NASA's satellite data web interface
- Researched and tested various unsupervised clustering algorithms
- Published paper "Cloud Classification with Unsupervised Deep Learning"

University of California, Berkeley, CA

January - June 2019

Academic Intern

- Assisted students enrolled in The Foundations of Data Science with labs, projects, and challenging concepts; topics include programming in Python, statistical inference, and modeling of real-world data-sets
- Lead 4-person adjunct sessions for Computational Structures in Data Science; topics covered include functional programming, data abstraction, and object-oriented programming in Python

Empowerly, Berkeley, CA

January - March 2019

Data Science Intern

- Assisted with the collection, cleaning, and evaluation of client data
- Developed algorithm to automate student-counselor pairings

Self, Highland Park, IL

January 2018 - Present

Graphic Designer

- Started small business creating custom stickers, graphics, and apparel with over 2,500 sales
- Designed custom augmented reality filters for Instagram and Facebook with over 300,000 total impressions

PROJECTS

- Deep learning model to predict crime in Chicago using Amazon Sagemaker (Amazon Web Services)
- Chrome extension that provides ethical ratings of products on Amazon.com (HTML, CSS, BeautifulSoup, JSON)
- Attention tracker application for Zoom using computer vision (OpenCV) and Keras
- Classifier that predicts a movie's genre using the frequency of words in its screenplay using k-nearest neighbors
- Subset of numpy using optimization techniques (OpenMP, Intel Intrinsics) and the Python-C interface

SKILLS

Python, Java, SQL, Git, Adobe Illustrator, Photoshop, Spark AR

EXTRA-CIRRICULARS AND AWARDS

Alpha Phi, Birthright Excel Business Fellow, Goldman Sachs Engineering Essentials Fellow, Facebook ABCS Fellow, Intel URP Scholar, JPMorgan Chase Sophomore Edge Fellow (Software Engineering), TAMID, XR@Berkeley