

Tabatha Lewis

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PROJECTS:

Rule: Created an affinity algorithm to match students with Medical Schools.

Music Visualization Class Project:* Implemented a Music API to make graphics move in sync with music in JavaScript. Created a collision detection system for objects from scratch. Simulated gravity.

LABORATORY EXPERIENCE:

Geschwind Laboratory UCLA

Undergraduate Researcher (Oct 2016-Feb 2017): Analyzed gene expression in hundreds of thousands of cells and used R to eliminate biases introduced by the gene detection methods. Created visualizations of relative gene expressions in ggplot.

Ozcan Research Group UCLA

Undergraduate Researcher (June 2016 - Aug 2016): Prepared and examined biological samples using imaging techniques, such as dark-field and bright-field microscopy.

TECHNICAL SKILLS:

C, C++, Unix, Reg Ex, Bash/Shell, Java, Python (Numpy, Pandas, SciPy, Matplotlib), R (ggplot), JavaScript (d3.js, React), Unity, Matlab, Git, HTML/CSS, Spark, SQL, TensorFlow, PyTorch AWS, Databricks, Splunk, Docker, Tableau, Microsoft Office Suite, Adobe Suite

LANGUAGES:

English (native), Spanish (native), French (professional competency)

*click to see

EDUCATION

University of California, Los Angeles

June 2020

Bachelors of Science in Mathematics of Computation

WORK EXPERIENCE

Stealth Start-Up:* | **Co-FOUNDER & MODEL DEVELOPER**

Oct 2020 - present | La Jolla, CA

- Trained and deployed Facebook's computer vision software Detectron2 to identify and count pills on trays.
- Investigated use of synthetic data.
- Set up APIs to send images to the cloud for inference and return a count and image with bounding boxes.
- Worked on a React app to create a user interface for pharmacists to count and identify pills.

NBCUniversal | **MACHINE LEARNING INTERN**

Jan 2020 - May 2020 | Los Angeles, CA

- Investigated the XGBoost Machine Learning Algorithm and its application to NBC's recommendation engine.
- Conducted data analysis on datasets with hundreds of millions of entries using Python, Spark and SQL to draw data driven consumer insights.
- Cleaned datasets and created visualizations using DOMO to present findings.

Fox Corporation | **SUMMER VIDEO ENGINEERING INTERN, FALL VIDEO ENGINEERING INTERN, SOFTWARE DEVELOPER**

May 2019 - Jan 2020 | Los Angeles, CA

- Created internal tools such as a tool to extract id3 tags and Nielsen watermarks from live video streams (VDMS and AWS) utilizing AWS and Python and created a web interface to access the tool with React (JavaScript, HTML/CSS).
- Resolved issues with Verizon's API logging messages to Splunk.
- Worked with complex Video and API structures and formats.

SEASnet Computing Facility | **LAB CONSULTANT**

Jan 2019- June 2020 | Los Angeles, CA

- Recommended software to clients and answered clients' technology and software related questions in a time sensitive environment.
- Diagnosed and resolved hardware and software failures.

Daily Bruin | **OPINION COLUMNIST, NEWS AND A&E CONTRIBUTOR**

Oct 2017 - June 2020 | Los Angeles, CA

- Wrote articles for UCLA's award-winning newspaper.
- Collected and vetted facts within time constraints by conducting informative interviews for and with the public.
- Quickly understood advanced research topics in a variety of fields, such as neuroscience, biology, psychology and sociology, and explained the research to the general public in a digestible manner.

Stealth Start-Up | **SOFTWARE ENGINEERING INTERN - DATA**

July 2017 - Feb 2018 | San Diego, CA

- Created Python modules for risk metric analysis of stock portfolios at an AI based stock trading stealth startup.
- Pulled and analyzed stock data from Yahoo Finance.