Tabatha Lewis

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PROJECTS:

Hopkins Research: Worked with a surgeon and medical student from Johns Hopkins to develop a Machine Learning Algorithm to predict patient outcome after heart transplants.

Phision.Ai*: Trained and deployed Facebook's computer vision software Detectron2 to identify and count pills on trays. Worked on a React app to create a user interface for pharmacists to count pills.

Rute: 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:

SEASnet Computing Facility UCLA
Lab Consultant (Jan 2019-June 2020): Recommended software to clients and answered clients' technology and software related questions in a time sensitive environment. Diagnosed and resolved hardware and software failures.

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.

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:

Currently Use: Python (Numpy, Pandas, SciPy, Matplotlib), JavaScript (d3.js, ReactJS, AngularJS, NodeJS), Go, Kubernetes, Docker, Git, Unix, Bash/Shell, SQL, NoSQL
In Progress: Solidity, Go, Rust
Previously Used: C, C++, Java, R, Unity, Unreal, Matlab, HTML/CSS Reg Ex, Spark, TensorFlow, PyTorch, AWS

LANGUAGES:

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

*click to see

EDUCATION

University of California, Los Angeles (UCLA)   June 2020
Bachelors of Science in Mathematics of Computation

WORK EXPERIENCE

Cloudera | Software Engineer - Machine Learning Platform Team
Feb 2021 - present | San Francisco, CA - remote
- Develop features (fullstack), fix bugs, and write back-end/front-end tests for Cloudera's ML platform CDSW, which runs in a Kubernetes cluster and is written in Go/Node.js. (K8s, Angular.js, React.js, Node.js, PostgreSQL). Manage and resolve issues that arise from working with K8s.
- Developed the back-end (API, Database layer, etc..) of the Data Connection feature which creates an abstraction of data warehouses to facilitate users in connecting to data warehouses (Hive, Spark and Impala using Spark and Impyla). Currently expanding this to allow for feature and dataset storage. Integrated this feature with other products at Cloudera such as a data visualization tool.

Decentral Games* | Full Stack Developer Consultant
Nov 2021 - present | California - remote

- Scale Decentral Games' Databases. Create Subgraphs for Decentral Games to pull data from the blockchain (GraphQL, MongoDB, redis).
- Fix bugs and implement new features for a P2E metaverse game.

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.

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, such as tracking users, to Splunk.

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.