

# Tabatha Lewis

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## TECHNICAL SKILLS:

**Currently Use:** Python (Numpy, Pandas, SciPy, Matplotlib, Langchain), JavaScript (React, Node), Go, MongoDB (NoSQL), Kubernetes, Docker, Git, Unix, Bash/Shell, SQL

## PUBLICATIONS:

**Pre-operative Machine Learning for Heart Transplant...**\* - Collaborated with Johns Hopkins to train XGBoost on pre-operative heart transplant patient data to predict patient mortality with the goal of creating a model to provide surgeons with better pre-operative risk assessment metrics. Resulted in a publication in the Journal of Cardiovascular Development and Disease.

## SIDE PROJECTS:

**Decentral Games\*** *Data & Backend Developer [Nov 2021 - present]* - Scale Decentral Games' Databases. Create infrastructure to pull data from the blockchain. Set up APIs and implement new features for a P2E metaverse game.

## OTHER EXPERIENCE:

### Daily Bruin\*

*Opinion Columnist, News and A&E Contributor [Oct 2017-June 2020]*

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.

## LANGUAGES:

English (native), Spanish (native)

\*click to see

## WORK EXPERIENCE

Google | **GOOGLE CLOUD SOFTWARE ENGINEER - DATABASE SERVICES**

Apr 2022 - present | Sunnyvale, CA

- Develop new features, write design docs, write end to end tests, and code review for Oracle, AlloyDB and Postgres managed database services running in Kubernetes in the Cloud and on-prem. Added AI predictive capabilities to both our AlloyDB-Omni Kubernetes operator which runs on any kubernetes engine and our fork of Zalando's open source postgres operator.
- Prioritize and develop new features for Google's open source Kubernetes Oracle Operator\* taking into account customers' needs. Develop product roadmap.
- Played an integral role in the comprehensive enhancement of the VertexAI (Google Cloud's AI platform) AlloyDB integration which was showcased at Google Cloud NEXT. Work with multiple stakeholders from Product and Engineering to define the vision of AI in databases. Work on embeddings critical user journey to automatically generate text embeddings upon insertion.\*

Cloudera | **SOFTWARE ENGINEER - MACHINE LEARNING PLATFORM TEAM**

Feb 2021 - Apr 2022 | 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.

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.

## EDUCATION

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

June 2020