

# Alivia Blount

Phone: 925.768.8921 | [aliviablount@gmail.com](mailto:aliviablount@gmail.com) | [linkedin.com/in/aliviablount](https://www.linkedin.com/in/aliviablount) | <https://github.com/ambount> | Oakland, CA

---

## WORK EXPERIENCE

---

### Biotechnology

#### Counter Culture Labs | [About](#)

2020

Bioinformatics Group - Working on developing a [16S Risk Group Database](#) to answer the question, is this bacteria safe to work with? Currently a group of data engineers and bioinformaticists are working together to scrape and clean public websites and import this information into a new database which can be used to query certain bacterial strains and determine their biosafety level (BSL).

#### Research to the people | Technical writer | [Overview](#) | [Paper](#) | [Afrotech Health - Talk](#)

2020

Epithelioid sarcoma patient post hackathon technical report co-author. 60 scientists and engineers came together over a three day weekend at the Snyder Lab located at the Stanford Medical Center. The group listened to a 2-hour presentation from the patients clinical oncologist, giving an overview of their medical history and recommendations going forward. Creating the report consisted of listening to deep dives from medical specialists and taking detailed notes of their recommendations. Monitoring and recording conversations from the slack channel and following up with scientists to gather links to scientific papers and specific clinical trials.

### Start-Up Technical Consulting

#### Bloc | Data Engineering + Machine Learning | Oakland, CA - Remote | [Code](#)

2020

Worked on dev-ops to productionize machine learning model which parses resumes for students working with workforce development programs. Created a web application to interact with the model. Most of the work detailed separating the new python package and deploying it to PyPI and making configuration decisions about where to host the model.

#### Executive Virtual Assistant | Technical Lead | Oakland, CA

2019

Examined data aggregation methods for restaurant data and porting transactions from receipts into concur. (python)

From this research three products were designed:

- Tool to import itemized receipts and map them to credit card transactions for company reimbursement, concur addition.
- Tool enabling restaurants to book groups larger than 10, which currently does not work in Open Table.
- Training program for executive assistants onboarding them to tools and services used on the job.

### Contracts

#### Microsoft via In-consulting | Technical Program Manager | Redmond, WA

2019

Worked with the Commercial Sales and Marketing Group to define and improve the customer success metric. (Power BI, SQL)

- Conducted a user research study to understand how customer success agents, account executives, cloud administrators, and technical sales representatives were managing communication with clients and what tools they were using.
- Worked with business strategy to prototype a new tool which took into account the findings from the user research study and was more useful to the account managers.
- Helped create a formal definition of customer success based on the percentage of purchase a client used in relation to what was currently available.
- Worked with data engineering and dynamics 365 program managers to clean up customer master so that each client only has one account, sub-accounts are an open problem which was unidentified at the time.

#### Facebook | Technical Program Manager | Menlo Park, CA

2018

Created data pipelines for 119 developer circle groups and dashboards to view data. (SQL, HIVE, python)

- Focused on the data content platform and created an international group of engineers who are training to become data scientists.
- Managed developer circles program operations by communicating with international program leads to create an annual budget for each program based on cost of living in the programs geography and processed payments in local currency. Formalized ticketing system.
- Created a content management system with 6 different learning tracks and managed a team of contractors who built the web application for the CMS. Functioned as a technical lead.
- Hosted international stand-up meeting weekly with program leads from EMEA, APAC, North America, LATAM to discuss standardization of the program tools and introduce CMS and use cases for on the ground leads.
- Created a data pipeline (data engineering) for events, which did not exist, and wrote bi-weekly analytic reports for each region so that program managers could report outcomes to their leadership teams. (tableau)
- Presented new CMS at F8 developer conference.

### Fellowships

#### Insight Data Science | Artificial Intelligence Fellow | San Francisco, CA | [Write - Up](#) | [Video](#)

2018

Created emergency medicine resident schedules based on constraint optimization in collaboration with UCSF. (or-tools, python)

- Built a network of PhD data scientists and machine learning engineers specializing in reinforcement learning, natural language processing, and computer vision.
- Attended NeurIPS conference and workshops on DeepRL + Black in AI Dinner.

#### Universal Music Group | Entrepreneur In Residence | Los Angeles, CA

2018

Explored new data products among internal tools groups. Understood the current data landscape in the music industry and met with leaders in ~12 different divisions to hear about current developments in artificial intelligence and data mining in the music industry.

- Won SXSW Hackathon out of 50+ teams through developing contextual music search algorithm which parsed songs into segments and clustered segments based on chord similarity. <https://devpost.com/software/contextual-music-search>
- Researched data flow process and prototyped functional tour management solution with Pollstar data.
- Developed new user experience design for sync team to assist them in transferring MP3 files externally and tracking comments through commercial music selection process for TV and film clients.

### Technical Internships

<b>New York Times</b>   Data Engineering Intern   Manhattan, NY   Technology Used: GCP, bigquery, datahub, google sheets API, python	2018
<ul style="list-style-type: none"> <li>• Wrote Python script to move metadata from Google Sheets to BigQuery to explore use cases for new GCP product datahub.</li> <li>• Developed orchestration workflow to schedule Python DAG script execution using Airflow, and automated authentication process.</li> </ul>	
<b>Acorns</b>   Data Science Intern   Irvine, CA   Technology Used: Databricks, python, SQL, SKLearn	2018
<b>Intuit</b>   Categorizations Data Engineering Intern   Mountain View, CA   Technology Used: SQL, Hadoop, Vertica	2017
<ul style="list-style-type: none"> <li>• Architected ETL process to collect data from Vertica DB utilizing Hive and Spark execution engine.</li> <li>• Feed data into Hadoop MapReduce system to create aggregate join tables across 9 massive FTP databases.</li> </ul>	
<b>Intel</b>   Platform Architecture Software Engineering Intern   Hillsboro, OR   Technology Used: javascript, angular, SQL, Microsoft SQL Server	2017
<ul style="list-style-type: none"> <li>• Engineered middleware stack using JavaScript, Node.js, Express and SQL queries, returning 9 billion records.</li> <li>• Collaborated with data scientist to solve query partitioning process using HDFS, Spark, and Yarn.</li> </ul>	

### TECHNICAL SKILLS

- **Languages:** Python, R, SQL, Javascript, HTML, CSS
- **Data Engineering Tools + Platforms:** Cosmos DB, Azure, GCP, Hadoop, HIVE, Tableau, Airflow, Composer(GCP), Kubernetes
- **Machine Learning:** Statistical Analysis
- **Deep Learning (Areas of Interest):** Reinforcement Learning, Natural Language Processing

### SIDE PROJECTS

<b>NeurIPS Paper metadata Labeling - Data Engineering Project</b>	2019
<i>Scraped the NeurIPS site for current papers and took the paper name and author information to add to cosmos DB database.</i>	
<b>Value of Social Networks   LinkedIn Economic Graph   Data Science Research Project</b>	2018
<i>Working with researchers from LinkedIn, MIT Media Lab, and Columbia to understand the impact of social networks on upward mobility.</i>	
<b>Shorter VR Experience   Software Engineer   Capitol360 Hackathon - Winner   <a href="https://devpost.com/software/a-shorter-ar-experience">https://devpost.com/software/a-shorter-ar-experience</a></b>	2018
<i>Created immersive experience using Wayne Shorter exclusive assets to complement audio passive listening experience.</i>	
<b>Contextual Music Group   Technical PM   SXSW Hackathon - Winner   <a href="https://devpost.com/software/contextual-music-search">https://devpost.com/software/contextual-music-search</a></b>	2018
<i>Audio processing application dividing audio track into segments and filtering those segments. CIL Winner (UMG Music).</i>	
<b>Food Labeling Project   Acorns   Data Science Intern   Oakland, CA (remote)</b>	2017
<i>Exploratory data analysis, manual transaction labeling, customer segmentation, multivariate analysis.</i>	

### EDUCATION

<b>BS - Computer Science</b> , University of California, Davis	INC
<b>Full Stack Web Development</b> , General Assembly, San Francisco, CA	2016
<b>Full Stack Web Development</b> , Dev Bootcamp, San Francisco, CA	2016
<b>Scrum Master Certification</b> , Collabnet, San Francisco, CA	2016
<b>AS - Allied Health</b> , Diablo Valley College, CA	2014

### USER EXPERIENCE DESIGN WORKSHOPS

User Experience Design - <b>Field Study Workshop</b> , Studio D Radiodurans w/ Jan Chipchase, San Francisco, CA	2017
Effective Communication and Management Workshop - <b>General Management</b> , Harrison Metal, San Francisco, CA	2017