

Alexander Muehleisen

742 N. Amerst Ave, Claremont, 91711, CA | +1 (840) 205-6878 | amuehleisen22@cmc.edu

<https://www.linkedin.com/in/alex-muehleisen/> | <https://github.com/alex-muehleisen> | <https://alex-muehleisen.github.io/>

EDUCATION

Claremont McKenna College, Claremont, CA

Graduation: December 2022

- *BA in Data Science* | GPA: 3.6/4.0
- *McKenna Achievement Merit Scholarship* (one of 15 recipients in the class of 2022)
- *Study Abroad: University of Cape Town*, South Africa | GPA: 3.7/4.0

July 2022 – December 2022

TECHNICAL SKILLS

- *Computer Languages*: Python, SQL, R, JavaScript, MATLAB, Java, TypeScript, T-SQL, HTML, CSS, XML
- *Tools*: PostgreSQL, Docker, Power BI, TensorFlow, MS Azure, AWS SQS, Git, Pandas, JSON, Node.js, Flask, Unix Shell
- *Skills*: Data Visualization, Data Warehousing, Machine Learning, ETL Pipelines, REST API Integration, CI/CD, Agile

PROFESSIONAL EXPERIENCE

Los Angeles Dodgers, *Data Consultant* | Claremont, USA

January 2022 – June 2022

- Analyzed a dataset of 400,000+ observations and developed several linear, logistic, and random forest models trained with and without spin profile characteristics to determine whether batted-ball spin contributes to quality of contact in baseball
- Presented an interactive Power BI Dashboard with key findings to Dodgers R&D team, along with a complete 'R' package

Crestron Electronics, *Data Engineering Intern* | New York City, USA

May 2021 – August 2021

- Constructed a platform to automate the Project Intake process at Crestron, providing users with a centralized database to manage projects and automatically assign relevant BPs to New Project Approval flows on Microsoft Azure
- Reduced related business-processing times by 20–30% and followed an Agile development scheme, using Azure DevOps
- Integrated the Power BI REST API with Microsoft Power Automate and PowerPoint to allow users to instantly generate a complete, multi-slide .PPTX Presentation with specific and relevant information about their Project

Etesian Ecommerce, *Software Engineering Intern* | Remote

June 2020 – August 2020

- Designed full-stack website and built a client-specific member dashboard with KPIs & an automated build for new sign-ups

RxRate – an RxAll Company, *Co-CEO* | Remote

August 2019 – January 2020

- Coordinated website launch (Sep. 2019) and monitored performance with Google Analytics and Firebase SDK, achieving a bounce rate of 18%, a pages/session ratio of 2.73 and an average session duration of 00:03:15 (Sep. 2019 – Dec. 2019)

RxAll, *Software Developer Intern* | Yangon, Myanmar

May 2019 – August 2019

- Developed a map-based web-app (RxRate) with the Google Maps API, Node.js, JSON, and MySQL that helps travelers find safe pharmacies and avoid counterfeit drugs in developing countries – iterated with feedback from UI/UX testing
- Secured sign-ups to RxRate from over 20 pharmacies in Yangon, through sales pitches and product demonstrations

LEADERSHIP EXPERIENCE

Randall Lewis Center for Innovation and Entrepreneurship, *Research Analyst*

October 2019 – August 2020

- Performed correlational research and constructed a research paper outlining how lagging Eastern European countries can find economic success by implementing innovative institutional frameworks and industrial policies (published May. 2020)

INDEPENDENT TECHNICAL PROJECTS

Senior Thesis, *'How COVID-19 Impacted Tertiary Education: Predicting the Educational Infrastructure of the Future'*

- Evaluated over 4,500,000 observations through multiple linear/logistic regression, polynomial features, regularization, and random forest models; made predictions through classification with a support vector machine

Developing a Highly Scalable Web Search Engine

- Achieved a webpage rendering time of 0.006s using WARC files from the multi-petabyte common crawl dataset

Scanning all Geotagged Tweets in 2020 to Monitor the Spread of COVID-19 on Social Media

- Analyzed a dataset of over 1.1 billion tweets using MapReduce to create parallel code and work with multilingual text

ADDITIONAL SKILLS AND INTERESTS

- *Language Fluency*: English (fluent) | German (fluent) | French (basic) | Afrikaans (basic)
- *Music Production*: Proficiency in Ableton Live, Avid Pro Tools, sound synthesis, and sound design
- *Competitive Sports*: Claremont Cougars Lacrosse team (3 years) | TASIS England Varsity Soccer (3 years), Captain in 2018
- *Competitive Traveling*: Traveled to and explored over 60 countries worldwide