

# Alexander Muehleisen

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## EDUCATION

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**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

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- *Computer Languages*: Python, JavaScript, SQL, R, Java, MATLAB, T-SQL, HTML, CSS, Swift, XML
- *Tools*: Keras, TensorFlow, PostgreSQL, Git, Scikit-learn, Pandas, Docker, Node.js, Microsoft Power Platform, Power BI
- *Skills*: Data Mining/Transformation, Data Visualization, Machine Learning, REST API Integration, UI/UX Testing

## PROFESSIONAL EXPERIENCE

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

January 2022 – May 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
- Created an 'R' package as final deliverable and an interactive Power BI Dashboard with key findings as final presentation

**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 [*Microsoft Power Platform*]
- 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
- Reduced related business-processing times by 20–30% and significantly reduced previously spent manual effort
- Followed an Agile development scheme, consisting of daily scrums and the use of Azure DevOps

**Etesian Ecommerce**, *Software Engineering Intern* | Remote

June 2020 – August 2020

- Designed UI, UX and member login portal of subsidiary company (SellGlobal) website using Wix, Docker and Ghost CMS
- Constructed a member-specific client dashboard that highlights KPIs and automated the build for new sign-ups with Zapier

**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)
- Organized fundraising for accelerators through financial projections and investment pitch decks

**RxAll**, *Software & Pharmacy Rating System Developer Intern* | Yangon, Myanmar

May 2019 – August 2019

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

## LEADERSHIP EXPERIENCE

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**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

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

- An analysis of over 4,500,000 observations through multiple linear regression, logistic regression, polynomial pipelines, and predictions through classification with a support vector machine

**Developing a Highly Scalable Web Search Engine**

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

## ADDITIONAL SKILLS AND INTERESTS

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- *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