

Maximillian Wiesner

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(949) 636-9002

San Diego, CA

Versatile data engineer who likes breaking things, fixing things, and occasionally asking too many questions. No particular order.

PROFESSIONAL EXPERIENCE

SIGNPOST

Data Engineer (Remote)

San Diego, CA

Aug 21'-Current

- Sole data engineer for a Series D startup with a distributed engineer team out of New York and Denver. Have implemented new ETL pipelines, optimized existing ones, and maintain the existing data infrastructure. Role has been a mix of data engineering (70%), devops (20%), and machine learning (10%). I wear many hats in this position, working closely with our infrastructure engineers, devops engineers, business operations team, BI analysts, and PM's.
- Evangelized Airflow as our new workflow management system and migrated all previous data sync jobs off Jenkins. Transferring some jobs to Airflow, and others into docker images running in various ECS clusters.
- Integrated new batch/stream data pipelines with third party applications like HubSpot, Braze, Paycom, YouCanBookMe, Gainsight and more.
- Built a random forest classifier and predicted customer churn with 93% accuracy, highlighting the most impactful business features to mitigate future drop out (we are a subscription-based service).
- Responsible for the health, speed, and availability of the warehouse; as well as managing users, permissions, and product data views used for internal reporting.

Tools: Redshift, RDS, EC2, ECS, Docker, Airflow, Jenkins, Mode, Ubuntu, CloudFormation, CircleCI

FRONTIER AIRLINES

Analytics Developer (Remote)

Denver, CO

Jan 20'-May 21'

- Cleaned/authored database tables, created views for internal reporting, and maintained numerous data pipelines for engineering, finance, and operations.
- Created KPIs and other trackable performance metrics for individual teams to use daily. KPIs addressed overall department performance, internal top performers (on teams where this was trackable), outstanding orders, and advised overall inventory volume, and spend.
- Used the Microsoft cloud suite to automate tasks, publish/email KPIs, trigger purchase orders, and optimize inventory allocation defined by a self-baked regression model which looked at historical maintenance data.

Tools: Microsoft Azure, PowerApps, Power BI, Microsoft SQL Server, Jupyter Hub

Data Analyst

Jan 19'-Jan 20'

- BI reporting machine on the technical and material operations team in the engineering department.
- Was given a manually calculated copy and paste excel report, produced the same report within Power BI, set the refresh and notification schedule, rinse, repeat.
- Projected inventory planning across 8 class 2 stations (most traffic), and 20+ class 3 locations to minimize aircraft maintenance downtime.

Tools: Power BI, Microsoft SQL Server, Jupyter Hub

EXPERIMENTAL MATHEMATICS LAB - CU BOULDER

Undergraduate Researcher

Boulder, CO

Jan 20'-May 20'

- Participated on a team of 5 undergraduate mathematics students on a semester long number theory research project exploring the Collatz Conjecture.
- We looked at the problem through a computational lens, as well as its consequences in p-adic space, differential equations, and various parts of analysis. I focused on the stopping time of the sequence, trying to explain its (alleged) limiting asymptotic density.

Tools: MATLAB, Jupyter Hub

EDUCATION

UNIVERSITY OF COLORADO AT BOULDER

Master of Science in Computer Science [Software Systems & Cloud Computing Focus]

Aug 21'-May 22'

Activities & Societies: Completed the two-year program in one while working full-time, there was no time (motivation?) for these.

UNIVERSITY OF COLORADO AT BOULDER

Bachelor of Science in Computer Science

Jan 20'-May 21'

Bachelor of Arts in Mathematics [Computational Track]

Jan 20'-May 21'

Bachelor of Arts in Economics [International Emphasis]

Aug 15'-May 19'

Activities & Societies: CU Men's Lacrosse, CAPA Florence Study Abroad Semester, Sigma Phi Epsilon, Hack CU – Hackathon participant for 2 years, Econ Club, Math Club (QED).

ABOUT ME/OTHER

- I've been a youth lacrosse coach for a few years, running offensive practices for juniors/seniors in summer club ball for the Colorado Fire team. In high school I was a 2x varsity captain and all-state as a sophomore-senior. At CU I got MCLA D1 player of the week my first week of games as a freshman; I immediately peaked unfortunately.
- Am currently restoring a 70' Ford Bronco and a '78 BMW R100RS, very slowly. I try and build things every so often, weather its auto/moto, woodworking, or applications.
- I enjoy traveling, bikes of any degree, doing nothing at the beach/park with friends (we call it rotting), consuming books at irregular intervals, making a leisurely espresso in the morning, and drawing on my chalk board. I strive for originality in everything I do and find peoples passions contagious and motivating. I am always looking for new opportunities to learn, create, and round myself and my experiences.
- Resume website I made before I knew what a JavaScript framework was: <https://maxwiesner.github.io/Portfolio/>