Connor Lydon

connoralydon.biz@gmail.com | 408-821-7781
Portfolio | LinkedIn | Github

EDUCATION:

Chapman University – *Fowler School of Engineering, Argyros School of Business and Economics*, Orange, CA
Bachelors of Science in Data Analytics and Business Economics **May 2022**
3.83 GPA

Courses: Data Structures and Algorithms, Relational Databases, Machine Learning, Data Science, Econometrics, Cybersecurity, and Production and Operations Management

SKILLS and TOOLS

Python	R	SQL	Data Visualization
AWS	C++	Jenkins	Tableau
Java	Geospatial Data	Automated Pipelines	Linux/Unix

WORK EXPERIENCE

Undergraduate Research Assistant (Data Engineering Intern)
Chapman University - Hersh Lab **May 2021 - Present**

- Collaborated with the World Bank on humanitarian data contracts
  - Utilized an auto-encoder to create user guided vulnerability index
- Created sections of a raw data pipeline, to download, transform and convert, then upload data in R
- Developed Togo suggestion citizen registration sites based on population, connectivity, and building availability
- Maintained and updated existing S3 instance and data infrastructure using GET APIs and AWS S3 Python tools
- Implemented Google Earth API to sub-select and clean data into our AWS server

Sales Associate
La Dolce Velo Bike Shop **May - Aug. of 2019 and 2020**

- Generated $110,000 in sales, $48,000 in profit resulting in a 43.6% profit margin, above the shop's 36% profit margin
- Analyzed product category demand using point of sales system to advise stores managers on product purchases
- Consulted customers and coworkers on customized bike builds

PERSONAL PROJECTS

Projects viewable via portfolio link above

MYSQL Server Interface **Oct. - Dec. 2021**

- Developed platform to interact with an SQL server hosted through Google Cloud Platform
  - Application used the MYSQL Connector Python package to build queries with placeholders with user input
- Managed synthetic magazine data such as subscriptions, payments and publishers
-

Customer Segmentation Analysis **Oct. - Dec. 2021**

- Harnessed US. Census data to predict defaults using Python
- Constructed models off of distinct clusters of people to make accuracy and precision less variable
- Utilized Principle Component Analysis to analyze what variables influenced the largest differences between data
- Used LASSO regularized model to estimate Income from subset of US. Census variables

ECOS Soap Research **Aug. 2020 - Dec 2021**

- Investigated alternative solid soaps and scrubbing apparatus as part of a corporate sponsored project by ECOS
- Created qualitative & quantitative presentation which was presented to ECOS's Director of Innovation

LEADERSHIP and VOLUNTEER EXPERIENCE

Data Analytics Association Member **Aug. 2020 - Present**

- Participated in biweekly meetings with other members to explore and discuss data science techniques, such as removed value analyses and how they affect data models

4-H Youth Development Program Adult Leader **Aug. 2016 - Present**

- Mentored youth through market sheep project and assisted them throughout our local county fair
- Lead and organized weekly meetings with youth members
- Facilitated conflict resolution discussions between both adult volunteers and youth members