Connor Lydon

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Portfolio | LinkedIn | Github

EDUCATION:

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

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

SKILLS and TOOLS

Intermediate:	Novice:	Familiarity:
Python, C++, Data Visualization, Data Structures & Algorithms	SQL, R, Linux/Unix, Java, Documentation	Jenkins, Geospatial Data, AWS, Tableau, Javascript, React

WORK EXPERIENCE

Software Engineering Intern
Toyota Racing Development **June 2022 - August 2022**

- Developed Python application that interfaces with vehicle instruments and reads live data to a local server.
- Decreased time spent by technicians by 50% and reduced review time of senior engineers by 75%, resulting in estimated $10,000 yearly cost savings.
- Used Tkinter to build GUI with a settings pane that reads from a local file server.
- Built full-stack Python application to improve speed, accuracy, and reliability of legacy system.
    - Time required is reduced by 50% by using multithreading for sensor data collection.
    - Time plugged in per sensor reduced from 120s to 80s.
    - Lowered re-run rate to 2% from 10% by using a functional programming approach.
- Built functionality to modify important settings using config files instead of hard-coded values.
- Reduced manual data entry error through Excel parsing system from 5% error rate to 1%.
- Used Sphinx to procedurally generate documentation and API for 8 classes and over 2000 lines of code

Data Engineering Intern
Chapman University - Hersh Lab **May 2021 - Present**

- Collaborated with the World Bank on humanitarian data contracts.
- Created sections of a raw data pipeline, to download, transform and convert, then upload data with R and S3.
- 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.

PERSONAL PROJECTS

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 irregular
- 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

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