

DAVID LAPAGLIA

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Detail-oriented, information and data scientist, who strives to generate actionable insights from data.

EDUCATION

Bachelor's of Science in Information Science | GPA 3.9 | Dean's List

- Minors in **Mandarin Chinese** and **Business**
 - University of Colorado Boulder, Boulder CO
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RELATED COURSEWORK

Programming for Information Science 1 & 2, Applied Machine Learning, Data Visualization, Web Data Science, Mathematical Concepts in Data Science, Data Mining, Web Application Design and Development, Data Exploration, Information Ecosystems, Statistics, Foundations of Data Science, Music as Information, GIS: Mapping (ArcGIS), Business Leadership, Entrepreneurship and Innovation, Marketing

WORK AND RESEARCH EXPERIENCE

Summer 2024 - Present

Junior Data Manager | National Oceanographic Atmospheric Administration (NOAA)/National Center Environmental Information (NCEI) – Cooperative Institute Research Environmental Science (CIRES)

- Simultaneously managed multiple ingestion scripts for passive acoustic data (PAD), archiving 50+ TBs
- Programmed 10+ Python scripts to aid the tasks of the data manager
- Led over four major UI/UX updates and bug testing for NCEI Passive Acoustic Collection Engine that led to increased productivity of data collection.
- Engineered revolutionary ways to manage hard drives in the PAD archive.

Center for Asian Studies Assistant | UNIVERSITY OF COLORADO BOULDER

February 2022 - Present

- Implemented video editing - multiple educational projects.
- Spearheaded design and integration of surveys and Google Sheets, improved productivity by 10%.
- Developed web scraping scripts that reduced the manual NRC reporting process from 5 hours to near-instant completion, achieving a 1800% increase in efficiency.

Code Sensei | CODE NINJAS

February 2020 - January 2021

- Taught computational reasoning skills with JavaScript to children ages 8-12.
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PROJECTS

Traffic Light Recognition Convolutional Neural Network (CNN)

- Engineered a CNN using Tensorflow, reaching 99% F1 score.
 - Practicing data cleaning and standardization techniques.
- Created a comparative model (support vector machine) with scikit-learn machine learning in Python.

Visualizing Emission Trends Across Countries

- Utilized the Altair package, created dashboards on carbon emissions by country.
- Analyzed type of emissions by region, identifying the most problematic places and emission type.

Beats and Bytes: Decoding the Data Behind Song Popularity

- Drawing from Python visualization packages, conducted an in-depth analysis on music data.
 - Identified key song features that drive overall song popularity, creating interactive information artifacts.
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RELEVANT SKILLS

Technical: Python, SQL, R, APIs, Data Mining (Web Scraping), Software Development, Database Management, Supervised and Unsupervised Machine Learning Models, TensorFlow, Data Visualization, Data Cleaning, Statistical Analysis

Software: PowerBI, Tableau, Figma, DB Browser for SQLite, Microsoft Office (Word, Excel, PowerPoint), Google Suite

Languages: Graduate Level Proficiency in Mandarin Chinese, Conversational French