Melissa Terry

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https://github.com/mkayeterry

As a recent graduate rooted in biochemistry, I focused my coursework on computational biology and programming. Alongside this, previous customer-facing positions have equipped me with strong interpersonal skills and a knack for problem-solving. Now, I'm excited to apply both my technical experience and interpersonal skills to new opportunities.

EDUCATION

- **University of California, Santa Barbara**
  - *Bachelor of Science in Biochemistry-Molecular Biology, Aug. 2023*

WORK EXPERIENCE

Plumarea Imaging LLC, Santa Barbara, CA
Software Developer - Contractor, Jan 2024 - present
- Developed a Python Flask app for real-time video streaming from a Raspberry Pi for portable methane detection.
- Reduced latency from 5 seconds to less than 1 second by eliminating excess video encoding and using FFmpeg to send encoded frames to a named pipe, enabling OpenCV to read each frame in real-time.
- Utilized JavaScript to enable interactive video display on desktop and mobile devices.

Nomad Goods, Santa Barbara, CA
Logistics Specialist, Jul 2018 - Dec 2019
- Managed daily operations, processing ~400 shipments per day using ShipStation.
- Coordinated a team of 5, training and delegating tasks for efficient order processing and accurate shipments.
- Implemented order prioritization by date and quality control measures to minimize errors.

Santa Barbara Gymnastics Club LLC, Santa Barbara, CA
Camp Manager/Instructor, Nov 2014 - Dec 2016
- Led engaging gymnastics classes for 15 children per class, fostering a safe learning environment.
- Efficiently managed payment tracking for ~100 client accounts using Excel, ensuring accurate records.
- Coordinated staff schedules and organized group rotations to efficiently manage class attendance.

SKILLS

Python	MATLAB	SQL	JavaScript	AWS
Linux/CLI	Git	Data Analysis	Data Visualization	

PROJECTS

USDA Food Data Central Processing, *https://github.com/mkayeterry/usda-fdc-data*
- Developed a data processing pipeline using Python to download, clean, and supplement USDA Food Data Central datasets. Applied data cleaning, merging, and aggregation techniques, and performed calculations to normalize nutritional information, producing a consolidated, deduplicated dataset.

recipe-urls, *https://github.com/mkayeterry/recipe-urls*
- Author and maintainer of a Python web scraping package that recognizes recipe links from over 100 different websites. Utilized class-based abstraction to ensure a flexible and scalable architecture, and conducted comprehensive parameterized unit testing.