SAFFRON LIVACCARI

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PROFESSIONAL SUMMARY

Graduate student in Environmental Studies with knowledge of finance, sustainability, water resources, and data analytics seeking a summer 2021 internship.

EDUCATION

University of Pennsylvania | Philadelphia, PA   (exp) May 2022
Master of Environmental Studies,   Concentration in Sustainability,   GPA 4.0/4.0
Relevant courses: Sustainable Development of Water Resources, The Future of Water, Risk Assessment

Stony Brook University | Stony Brook, NY   May 2018
BSc (Hons) Applied Mathematics and Statistics
Concentration in Operations Research,   Minor in Music
Magna Cum Laude, GPA 3.7/4.0, Women in Science and Engineering Honors Society

PROFESSIONAL EXPERIENCE

The Water Center at Penn | Philadelphia, PA   Oct. 2020 – Present
Water Resource Data Analyst
- Analyzed 1,500 bacteria samples from the Schuylkill and Delaware River using Excel and Python
- Calculated the Statistical Threshold Value, Geometric Mean, and rolling summation of rain in Python and exported to an easily digestible excel file using Pandas
- Produced statistical graphs to interpret the correlation of Enterococcus and E.Coli with rainfall and location
- Guided stakeholders and policymakers in Philadelphia and Camden (New Jersey) towards the optimal projects centered around the goal for swimmable water quality using the criteria of EPA standards

Invsto | Lansdale, PA   April 2020 – Aug. 2020
Python Programming Internship
- Assisted remotely a 10-person international team in growing a fintech trading startup
- Lead programmer for data upkeep and loading, maintaining over 5,000 records
- Developed python code to read, upload, and check data in AWS Arctic

First Derivatives | New York City, NY   June 2018 – Feb. 2020
Financial Engineer
- Served as a consultant for various clients focused on finance and compliance
- Supervised daily USD/CAD reconciliation from BMO branch transactions for the Back-Office Project Delivery Team for Bank of Montreal
- Inspected a total of 21,000+ out of date client records by collecting reliable verification documentation to adhere to new standards of KYC/AML Protocol for Bank of New York Mellon
- Facilitated the Liquidity Stress Testing project for ScotiaBank as the lead UAT tester for BAU monthly code releases within Tableau

Turkana Basin Institute | Ileret, Kenya   May 2017 – June 2017
Engineering Study Abroad Project
- Relocated 50 students from a collapsing school building to new classrooms built using an abandoned dormitory
- Managed the relocation project from start to finish (idea, design, planning, gathering resources, and implementation), executed with the cooperation of 5 locals
- Inspired tribe members to create instruments out of unwanted items and initiated a music club for the local school

EXTRACURRICULAR

Graduate Advisory Board | University of Pennsylvania   Sept. 2020 – Present
- Communication coordinator for events involving environmental master's students

Mentor | Stony Brook University   Aug. 2017 – May 2018
- Supported incoming freshman in the School of Engineering and Applied Sciences to retain students in STEM

African Drumming | Stony Brook University   Aug. 2017 – May 2018

SKILLS & INTERESTS

- Python, Excel
- Rock Climbing, Hiking, Classical Music