Matthew Teelucksingh

Data Scientist, Policy Analyst

Data Scientist and Policy Analyst whose focus is on energy policy and economics that has technical experience in data collections and analysis using web and data analysis frameworks in python and has previous experience in research and report writing.

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PROFESSIONAL EXPERIENCE

Data Analyst
Coastal Dynamics - Port of Spain, Trinidad & Tobago
June 2020 – July 2020

- I was responsible for creating the APIs necessary for querying unstructured GIS and timeseries data generated by DHI's hydrodynamic models. Technologies used in creating these APIs include SMTP servers, DHI MIKE Software Development Kit and python API frameworks (Django/Flask).
- Used the custom APIs to build Django data dashboards that displayed real-time and forecasted ocean current, wave height and wind data for BHP offshore oil platforms (state the value of the project stuff).

Field Technician
Coastal Dynamics – Port of Spain, Trinidad & Tobago
Aug 2018

- Conducted an underwater survey of macro-organisms along coral reefs as part of an EIA for a Trinidad National Petroleum development project.
- Performed data collection about the impact of a natural gas development project on mangrove ecosystems.
- Analysed and recorded sediment grain size via laser diffraction in a Mastersizer for benthic analysis.

Research Assistant
Operation Wallacea – Pantai Nirwana, Indonesia
Jun 2018 – July 2018

- Participated in underwater surveys that collected benthic & aquatic organism census data used for reef quality surveys from the Hoga Island Marine Station.
- Set up, deployed and reviewed data collected from Baited Remote Underwater Video systems that record and monitor Elasmobranches as part of the Global Finprint survey initiative that contributed to a peer reviewed article.

EDUCATION
Bachelor Of Environmental Studies

University of Waterloo, Waterloo, ON
May 2022
Honours Environment and Business; 4.0 Major GPA.

Capstone Project:
My research project that evaluates the viability of reducing emissions in the Canadian aviation industry via performance standards that encourage the optimization of route and fleet selection..

Best Practices in Regulations:
The course focused on the pros and cons of different forms of environmental regulations and some of the challenges associated with attempting to solve environmental and social issues through regulation. This course culminated in a research paper proposing energy subsidy reform in the Trinidad and Tobago electivity market.

Research Design:

Examines different research strategies and designs; define research questions; address ethical issues of involving human subjects in business research; identify primary and secondary data sources; and assess the effectiveness of various ways of communicating research results.

Environmental Management Systems:

We researched and compared various environmental management systems to the standards set by ISO 14001 and identified their pros and cons. There was a focus on Environmental Impact Assessments and how each standard addressed the issues created by the tension between development interests and the public good.

Industrial Ecology: Life Cycle Assessment and Management in Business:

Focused on conducting full cradle-to-grave life cycle assessments via EarthShift Global's LCA software as well as the theoretical underpinnings of how LCA's are conducted and how boundaries between stages of an LCA are determined.

Technologies

- Python
- Django (Web and REST Framework)
- Celery Process Scheduler
- Redis
- Nginx
- PostgreSQL
- Docker
- Digital Ocean Droplets and Spaces

Personal Interests

- Writing
- Scuba Diving
- Rocketry
- Foreign Policy
- RC Drones (Fixed Wing & Quadcopters)
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