Brandon Dela Cruz

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OBJECTIVE

Seeking a challenging role as a GIS Specialist, utilizing my strong background in GIS, data analysis, and critical thinking to contribute to the company's mission of promoting a sustainable future and innovative solutions.

EDUCATION

Bachelor of Science in Global Environmental Science (GES)   **May 2023**
University of Hawaiʻi at Mānoa (UHM), Honolulu, Hawaii
GPA 3.7

Geospatial Information System (GIS) Certificate   **May 2023**
University of Hawaiʻi at Mānoa (UHM), Honolulu, Hawaii

RELATED COURSE WORK

- Geospatial Information Systems
- UAV & Aerial Photography
- 3D Mapping & Analysis
- Field Mapping
- Remote Sensing

- Calculus I, II, III, IV
- Physics 1 & 2
- Chemistry 1 & 2
- Biology 1 & 2
- Geology
- Hydrogeology

- Earth System Science Databases
- Global Environmental Change
- Atmospheric Processes
- Biogeochemical Systems
- Aquatic Pollution

WORK EXPERIENCE

AECOM, Honolulu, HI   **January 2023 – August 2023**
Environmental Scientist Intern
- Performing monthly field collections for Visual Trash Assessment utilizing GIS-based Cityworks software.
- Apply technical writing expertise to support environmental planners in conducting Environmental Assessments (EAs) adhering to diverse state regulations.
- Developed a stormwater delineation for a compromised watershed utilizing tools including ArcGIS Desktop, Microsoft Power BI, and Trimble Cityworks Database. Proposed optimal implementation sites for Best Management Practices (BMPs) at outfall locations to guide city decision-making.
- Provided guidance and instruction, and collaborative support to colleagues on diverse ArcGIS Desktop competencies, encompassing data acquisition, analysis, and geospatial data interpretation.
- Applied various ArcGIS Online tools, such as Survey123 and Field Maps to optimize field work.

University of Hawaiʻi at Mānoa, Honolulu, HI   **Jan 2021 – May 2023**
GES Thesis: Spatiotemporal Analysis of Distribution Patterns of *E. coli* in an Urban Wetland
- Addressed concerns raised by community partners regarding the proliferation of *E. coli* on their property
- Employed standard operating procedures to quantify E. coli abundance and measure water quality characteristics.
- Conducted monthly field collection at 20 locations across the study area.

- Analyzed spatial trends using ArcGIS Pro to create figures to visualize and compare the results of the study.
- Used Python to create correlation graphs between the concentrations of *E. coli* and water quality parameters.

University of Hawai'i at Mānoa, Honolulu, HI   **January 2023 – May 2023**
Undergraduate Student Research Assistant
- Participated in a NASA-funded Environmental Justice project which included locating and managing GIS data maps and completing gaps in metadata.
- Mined historic maps related to the temporal variability of land use in the Pu'uloa area.
- Developed and managed a system for compiling metadata.

City & County of Honolulu SWQD, Kapolei, HI   **May 2022 – August 2022**
Summer Intern
- Collaborated with fellow interns to compile stream monitoring data, utilizing ESRI ArcMap and Dashboards to create an educational ArcGIS StoryMap highlighting the importance of clean stream for public awareness.
- Assisted Environmental Technicians and Civil Engineers on SWMPP-related projects involving illicit discharge and unauthorized drain connections.
- Familiar with NPDES MS4 Permit.

ADDITIONAL EXPERIENCE

- Field Collection for the City Water Project for Bowen Labs at the University of Utah.
- Assisted NOAA and HIMB professionals with the characterization of larval plankton in near and deep Hawaiian oceans.
- Hawai'i Nature Corps (HNC) Hiking Club.
- Discovery Fair 2019 volunteer/educator for the Chemistry Department at LCC.

SKILLS

- ESRI's ArcGIS: ArcGIS Pro, ArcGIS Online ArcMap, Field Maps, Survery123, StoryMaps, and Dashboards.
- Microsoft Office Suite: Word, Excel, PowerPoint, and Power BI.
- Trimble Cityworks.
- Programming Languages: Python, R Studio, MATLAB.
- Language: Understand and speak some Korean.

AWARDS

- Dean's List, Spring 2022 and Fall 2022.
- Achievement Scholarship Undergraduate Research B982, Fall 2021 – Spring 2023.
- J. Watumull Merit Scholarship, Fall 2022 – Spring 2023.

REFERENCES
Will be furnished upon request.