

Frendy Lio

[Linkedin: frendylio](#) / [Github: frendylio](#)

Honolulu, Hawaii

frendy@hawaii.edu

(808)-256-1848

Education

B.S., Electrical Engineering, GPA: 3.62, University of Hawai'i at Mānoa

Expected graduation: May 2020

A.A.S., Engineering, GPA: 3.95, Leeward Community College

Work Experience

University of Hawai'i at Mānoa

STAR – SQL Programmer

Jun 2018 - Present

- Assisting, maintaining, and optimizing stored T-SQL database procedures for student registration, academic transcripts, and degree planning activities for all 10 campuses of the University of Hawai'i System with 53,000+ students and faculty.
- Creating and maintaining MS Access interfaces for securities and set up of scholarships, degree pathways and reports for all 10 campuses of the University of Hawai'i System.
- Manage and lead the back-end team of 4 to maintain and develop an appointment website for all students and advisors at any 10 campuses of the University of Hawai'i System.

Leeward Community College

Office of International Programs – Office Aid

Aug. 2016 – Jun. 2018

- Advised incoming International Students with their college-related issues, F-1 Visa, Insurance and Holds
- Entered and updated incoming international student's information and files in Banner Student Information System which is a database of student's records and information for higher education institutions.

Project Experience

University of Hawai'i at Mānoa – Machine Learning

Capstone Project

Aug. 2019 – Present

- Learning about the basics of machine learning by developing a script using python that will read an image portraying a number and returns the number read.
- Preliminary stage before developing and implementing machine learning into games.

Hawaii Annual Code Challenge – Kumu App

Database Programmer

Oct. 2018 – Nov. 2018

- Designed and built a two-part system for efficient, user-friendly data reporting and visualization for native Hawaiian plants.
- Developed the backend of the app using PHP and SQL.
- Placed in the top 12 out of 50 in the Hawaii Annual Code Challenge.
- Team of 5

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University of Hawai'i at Mānoa - Laplace Barrier

Research Assistant

Jun. 2018 – Aug. 2018

- Presented on the 2018 PEEC II Symposium: O Ke Kahua Mamua, Mahope Ke Kūkulu.
- Assisted with merging and splitting of liquid metal inside of a polydimethylsiloxane (PDMS) by using electrodes.
- Created PDMS with small barriers with the size of 100 micrometers that were bounded to a glass slide by using a machine that would generate electric fields.

Leeward Community College - CANSAT

Lead Mechanical Designer

Dec. 2017 – Mar. 2018

- Designed, developed and simulated a space CANSAT entering a planetary atmosphere.
- Designed the Heat Shield, Electronics compartment and structure of the CANSAT.
- Placed top 85 in the CANSAT international competition.
- Team of 8

Skills

Programming: SQL, VBA, C++, C, MATLAB, Python, HTML, CSS

Tools: Git, Linux, LogicWorks, SolidWorks, MS Access, LabVIEW

Activities

Member: IEEE-Eta Kappa Nu (HKN) Honor Society, UH Manoa

Aug. 2019 – Present

Member: Programing and Development Club (PDC)

Aug. 2019 – Present

Member: Native Hawaiian Science and Engineering

Jun. 2018 – Present

Mentorship Program (NHSEMP)

Languages

Native Language: Spanish

Full Professional Proficiency: Portuguese

Limited Working Proficiency: Cantonese