Frendy Lio

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Honolulu, Hawaii   (808)-256-1848

Objective

Seeking an internship in Software engineering emphasizing in database, data analytics and machine learning.

Education

B.S., Electrical Engineering, GPA: 3.62, University of Hawaiʻi at Mānoa
     Expected graduation: May 2020
A.A.S., Engineering, GPA: 3.95, Leeward Community College

Skills

- Programming: SQL, VBA, C++, C, Python, MATLAB, HTML, CSS
- Tools: Git, Linux, LogicWorks, SolidWorks, MS Access, LabVIEW

Work Experience

University of Hawaiʻi at Mānoa

STAR **–** SQL Programmer   Jun 2018 - Present
- Assist, maintain, and optimize stored T-SQL database procedures for student registration, academic transcripts, and degree planning activities for all 10 campuses of the University of Hawaiʻi System with 53,000+ students and faculty.
- Create and maintain MS Access interfaces for securities and set up of scholarships, degree pathways and reports for all 10 campuses of the University of Hawaiʻi 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 Hawaiʻi System.

Project Experience

University of Hawaiʻi at Mānoa – Machine Learning

Capstone Project   Aug. 2019 – Present
- Develop an algorithm that learnt how to play a simple well defined game in Python.
- Using iPython and the MNIST database to establish our basic algorithm for machine learning.
- Reviewing basic concepts of Machine Learning algorithms and the underlying Linear Algebra.
- Project directed under Dr. Prasad Santhanam.

Hawaii Annual Code Challenge (HACC)

Lead Hardware Developer – HECO Rewards   Oct. 2019 – Nov. 2019
- First place in HACC 2019
- Co-collaborated in a team of eight to create a solution to increase the understanding of the current data, and future data that HECO will be able to obtain about their Electrical Vehicle Charging Stations.
- Build and Set up a Raspberry Pi with an Arduino Camera that will read card's license plates and storage it to our database using Python and OpenCV.

Database Programmer – Kumu App   Oct. 2018 – Nov. 2018
- Co-collaborated in a team of five, 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 HACC 2018.

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University of Hawaiʻi at Mānoa – Kali Linux   May. 2019 – Aug. 2019

Cyber Security Programmer
- Co-collaborated in a team of two, worked in a controlled environment and recreated specific attacks on a simple wireless network to see firsthand how flaws in the protocol can lead to network infiltration.
- Project completed under Dr. Yingfei Dong.

University of Hawaiʻi 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.
- Project completed under Dr. Aaron Ohta.

Leeward Community College - CANSAT

Lead Mechanical Designer   Dec. 2017 – Mar. 2018
- Co-collaborated in a team of eight, 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.

Activities

IEEE-Eta Kappa Nu (HKN) Honor Society, UH Manoa
- Provide tutoring for freshman and sophomore.
- Volunteer for various event related to IEEE.

Programing and Development Club (PDC)
- Participate in the code reviews and white board interview sections.

Native Hawaiian Science and Engineering Mentorship Program (NHSEMP)
- Mentor and volunteer for various event related to NHSEMP.

Languages

Spanish, Portuguese