Frendy Lio

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EDUCATION

UNIVERSITY OF HAWAI`I AT MĀNOA

MS in Electrical Engineering
Present | Honolulu, HI

UNIVERSITY OF HAWAI`I AT MĀNOA

BS in Electrical Engineering
Grad. May 2020 | Honolulu, HI
GPA: 3.69 / 4.0

LEEWARD COMMUNITY COLLEGE

AAS in Engineering
Grad. May 2018| Honolulu, HI
CANSAT TOP 85
GPA: 3.95 / 4.0

COURSEWORK

GRADUATE

Advanced Network Algorithms
Computer and Network Security
Algorithm
Computer Hardware
Information Theory in Machine
Learning

UNDERGRADUATE

Operating Systems
Machine Learning
Digital Systems & Computer Design

SKILLS

PROGRAMMING

Back-End
T-SQL • MS Access • C#
Rest-API • IIS •
Frameworks
Angular • React • Vue
Web development
Javascript • HTML • CSS
Scripting and System Level
Python • C • C++
Source Control
GitKraken • Git •

INVOLVEMENT

IEEE-Eta Kappa Nu (Honor Society)
NHSEMP
Programming and Algorithms Club

EXPERIENCE

STAR | Lead SQL Programmer

JUN 2018 - Present | Honolulu, HI

- Managing and leading a team of 10 to maintain and develop STAR BALANCE, a calendar and appointment scheduling website for all 50,000+ students and faculty.
- Creating and maintaining MS Access interfaces for set up of scholarships, degree pathways and reports.
- Using T-SQL and MS SQL Server for development.

DATAHOUSE | Intern - Full Stack Programmer

Dec 2019 - May 2020 | Honolulu, HI

- Led a team of 7 to create a solution that streamlined the Animal Quarantine facility workflow with a new messaging system, an up-to-date pet-information display, and a Kiosk Check-In app.
- Created whole Middleware and Back-End side by using C#, Typescript and T-SQL.
- Created the skeleton for the Front-End by using Angular.

UNIVERSITY OF HAWAI`I AT MĀNOA | Teaching Assistant

Dec 2019 - May 2020 | Honolulu, HI

- Managed and taught weekly labs for object-oriented programming in C++.
- Assisted and mentored 26 students in groups and on an individual basis.

PROJECT EXPERIENCE

MACHINE LEARNING - CAPSTONE PROJECT

Aug 2019 – Present | Honolulu, HI

- Developing machine learning algorithms using supervised and unsupervised training.
- Classified MNIST Digit database using Support Vector Machine, Linear Classifiers and Neural Networks.

HECO REWARDS - HACC 2019 | Lead Hardware Developer

OCT 2019 – NOV 2019 | Honolulu, HI

- First place in Hawaii Annual Code Challenge 2019.
- Collaborated in a team of eight to create a solution to increase the understanding of the current and future data that HECO will be able to obtain from their Electrical Vehicle Charging Stations.
- - Built 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.

KUMU APP - HACC 2018 | Database Programmer

OCT 2018 – NOV 2018 | Honolulu, HI

- 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.