

Frendy Lio

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EDUCATION

UNIVERSITY OF HAWAII AT MĀNOA

MS IN ELECTRICAL ENGINEERING
Present | Honolulu, HI

UNIVERSITY OF HAWAII 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
Computer Vision
Digital Image Processing

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.
- Weekly meetings to discuss new features requested by our customers.
- Creating and maintaining MS Access interfaces for setting up scholarships, degree pathways, and reports.
- Using T-SQL and MS SQL Server for development.

UNIVERSITY OF HAWAII AT MĀNOA | TEACHING ASSISTANT

Dec 2019 - Present | Honolulu, HI

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

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.

PROJECT EXPERIENCE

GAME THE SYSTEM - HACC 2020 | LEAD BACK-END DEVELOPER

Oct 2020 - Nov 2020 | Honolulu, HI

- Runner-up in Hawaii Annual Code Challenge 2020
- Created a web application to increase building security.
- Developed Back-End using Laravel, SQL Server and Amazon Web Services.

CRAM - EDUHACKS 2020 | PROJECT MANAGER

Aug 2020 - Oct 2020 | Honolulu, HI

- Third place out of 250 teams.
- Collaborated in a team of four to create CRAM, a CRedit Asset Management website where students are able to see their credits and plan their pathway while keeping their privacy via BlockChain.
- Developed with VueJS, DDN BlockChain, and T-SQL.

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 from EV Charging Stations.
- Built and set up a Raspberry Pi with an Arduino Camera that will read the card's license plates and store it to our database using Python and OpenCV.