FRENDY LIO

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EDUCATION

University of Hawai'i at Mānoa **Aug. 2020 – Dec. 2021**
Master of Science in Electrical Engineering *Honolulu, HI*
• Major GPA: 4.0/4.0

University of Hawai'i at Mānoa **Aug. 2018 – May 2020**
Bachelor of Science in Computer Engineering *Honolulu, HI*
• Major GPA: 3.69/4.0

EXPERIENCE

University of Hawai'i at Mānoa **Aug. 2020 – Present**
Red Hill Project – Research Assistant – Software Developer *Honolulu, HI*

- Developing scripts to control and spoof/trick the trajectory of unmanned aerial vehicles.
- Programming software to gather data from corrosion sensors.
- Main tools: ArduPilot, Bash, DroneKit, MavLINK, and Python.

University of Hawai'i – Student Tracking and Reporting System (STAR) **Jun. 2018 – Present**
Lead SQL Programmer – Fellowship *Honolulu, HI*

- Leading the backend team of 7 to maintain and develop STAR Balance, an appointment website for all 50,000+ students and advisors at any 10 campuses of the University of Hawai'i System.
- Discussing solutions and alternatives with clients on new features and current bugs for STAR Balance.
- Programming user-friendly interfaces for administrators for the different products of STAR.
- Main tools: MS Access, and MS SQL Server.

Datahouse **Dec. 2019 – May 2020**
Software Engineer Intern *Honolulu, HI*

- Lead a team of 7 to create a kiosk check-in app for the animal quarantine station for the state of Hawaii that consists of a front-display and queueing system.
- Main tools: Angular, CSS, C#, HTML, MS SQL Server, and Typescript.

COMPETITIONS

AI Racing Tech - Indy Autonomous Challenge **May 2021 – Present**
Perception Team *Honolulu, HI*

- Discussing and creating the perception section that creates the data processing and gathering for an autonomous racing car.
- Main tools: C++, Docker, ROS, and, Python.

Game The System - HACC 2020 **Oct. 2020 – Nov. 2020**
Lead Backend Developer *Honolulu, HI*

- Runner-up in Hawaii Annual Code Challenge 2020.
- Participated with a team of 7 and lead the back-end team to develop a web application to optimize and ensure ITS building security and guest access management.
- Main tools: Laravel, MS SQL Server, and Amazon Web Services.

CRAM - EduHacks 2020 **Aug. 2020 – Oct. 2020**
Project Manager *Honolulu, HI*

- Third prize out of 250 teams internationally.
- Organized a team of four to create CRAM, a CRedit Asset Management website where students can see their credits and plan their pathway while keeping their privacy via blockchain.
- Main tools: VueJS, DDN Blockchain, and MS SQL Server.

HECO Rewards - HACC 2019 **Oct. 2019 – Nov. 2019**
Lead Hardware Developer *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 them in our database.
- Main tools: MS SQL Server, and Python.