FRENDY LIO

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EDUCATION

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

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

EXPERIENCE

University of Hawaiʻi 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 Hawaiʻi – Student Tracking and Reporting System (STAR)   **Jun. 2018 - July 2021**
Lead SQL Programmer   *Honolulu, HI*

- Lead 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 Hawaiʻi System.
- Discussed solutions and alternatives with clients on new features and currents bugs for STAR Balance.
- Programmed 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 percetion 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.