




FRENDY LIO

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EDUCATION

University of Hawai'i at Mānoa <i>Master of Science in Electrical Engineering</i> • Major GPA: 4.0/4.0	Aug. 2020 – Dec. 2021 <i>Honolulu, HI</i>
University of Hawai'i at Mānoa <i>Bachelor of Science in Computer Engineering</i>	Aug. 2018 – May 2020 <i>Honolulu, HI</i>

EXPERIENCE

University of Hawai'i at Mānoa <i>Research Assistant - Software Developer</i> <ul style="list-style-type: none"> 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. 	Aug. 2020 – Present <i>Honolulu, HI</i>
STAR <i>Lead SQL Programmer</i> <ul style="list-style-type: none"> 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 Hawai'i System. Discussed solutions and alternatives with clients on new features and current bugs for STAR Balance. Programmed user-friendly interfaces for administrators for the different products of STAR. Main tools: MS Access, and MS SQL Server. 	Jun. 2018 - July 2021 <i>Honolulu, HI</i>
Datahouse <i>Software Engineer Intern</i> <ul style="list-style-type: none"> 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. 	Dec. 2019 – May 2020 <i>Honolulu, HI</i>

COMPETITIONS

AI Racing Tech - Indy Autonomous Challenge <i>Perception Team</i> <ul style="list-style-type: none"> 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 	May 2021 - Present <i>Honolulu, HI</i>
Game The System - HACC 2020 <i>Lead Backend Developer</i> <ul style="list-style-type: none"> 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. 	Oct. 2020 - Nov. 2020 <i>Honolulu, HI</i>
CRAM - EduHacks 2020 <i>Project Manager</i> <ul style="list-style-type: none"> 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. 	Aug. 2020 – Oct 2020 <i>Honolulu, HI</i>
HECO Rewards - HACC 2019 <i>Lead Hardware Developer</i> <ul style="list-style-type: none"> 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. 	Oct. 2019 - Nov. 2019 <i>Honolulu, HI</i>