




# FRENDY LIO

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## EDUCATION

<b>University of Hawai'i at Mānoa</b> <i>Master of Science in Electrical Engineering</i>	<b>Aug. 2020 – Dec. 2021</b> <i>Honolulu, HI</i>
<b>University of Hawai'i at Mānoa</b> <i>Bachelor of Science in Computer Engineering</i>	<b>Aug. 2018 – May 2020</b> <i>Honolulu, HI</i>
<b>Leeward Community College</b> <i>Associates of Applied Science in Engineering</i>	<b>Aug. 2016 – May 2018</b> <i>Pearl City, HI</i>

## EXPERIENCE

<b>University of Hawai'i at Mānoa</b> <i>Software Developer</i>	<b>Aug. 2020 – Present</b> <i>Honolulu, HI</i>
<ul style="list-style-type: none"> <li>Developing scripts to control and spoof/trick the trajectory of unmanned aerial vehicles.</li> <li>Programming software to gather data from corrosion sensors.</li> <li>Main tools: ArduPilot, Bash, DroneKit, MavLINK, and Python.</li> </ul>	
<b>STAR</b> <i>Lead SQL Programmer</i>	<b>Jun. 2018 - July 2021</b> <i>Honolulu, HI</i>
<ul style="list-style-type: none"> <li>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.</li> <li>Discussed solutions and alternatives with clients on new features and current bugs for STAR Balance.</li> <li>Programmed user-friendly interfaces for administrators for the different products of STAR.</li> <li>Main tools: MS Access, and MS SQL Server.</li> </ul>	
<b>Datahouse</b> <i>Software Engineer Intern</i>	<b>Dec. 2019 – May 2020</b> <i>Honolulu, HI</i>
<ul style="list-style-type: none"> <li>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.</li> <li>Main tools: Angular, CSS, C#, HTML, MS SQL Server, and Typescript.</li> </ul>	

## COMPETITIONS

<b>AI Racing Tech - Indy Autonomous Challenge</b> <i>Perception Team</i>	<b>May 2021 - Present</b> <i>Honolulu, HI</i>
<ul style="list-style-type: none"> <li>Discussing and creating the perception section that creates the data processing and gathering for an autonomous racing car.</li> <li>Main tools: C++, Docker, ROS, and, Python</li> </ul>	
<b>Game The System - HACC 2020</b> <i>Lead Backend Developer</i>	<b>Oct. 2020 - Nov. 2020</b> <i>Honolulu, HI</i>
<ul style="list-style-type: none"> <li>Runner-up in Hawaii Annual Code Challenge 2020.</li> <li>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.</li> <li>Main tools: Laravel, MS SQL Server, and Amazon Web Services.</li> </ul>	
<b>CRAM - EduHacks 2020</b> <i>Project Manager</i>	<b>Aug. 2020 – Oct 2020</b> <i>Honolulu, HI</i>
<ul style="list-style-type: none"> <li>Third prize out of 250 teams internationally.</li> <li>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.</li> <li>Main tools: VueJS, DDN Blockchain, and MS SQL Server.</li> </ul>	
<b>HECO Rewards - HACC 2019</b> <i>Lead Hardware Developer</i>	<b>Oct. 2019 - Nov. 2019</b> <i>Honolulu, HI</i>
<ul style="list-style-type: none"> <li>First place in Hawaii Annual Code Challenge 2019.</li> <li>Collaborated in a team of eight to create a solution to increase the understanding of the current and future data from EV Charging Stations.</li> <li>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.</li> <li>Main tools: MS SQL Server, and Python.</li> </ul>	