JONATHAN H. LAU

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EDUCATION:

University of Hawaii at Manoa   Honolulu, HI   Expected May 2019
Bachelor of Science in Computer Engineering   GPA 3.69/4.00

SKILLS:

Languages & Software Tools:

Proficient: C, C++, Javascript, Python   Experience: HTML, CSS, NodeJS, ReactJS, Semantic UI, OpenCV
Git/Github   Verilog, MongoDB, JQuery

EXPERIENCE:

University of Hawaii   Honolulu, HI
EE Teaching Assistant   January 2018 – Present
- Teaching a laboratory on FPGA and digital circuit design using LogicWorks, Quartus, and Verilog HDL
- Mentoring 22 students in design methods and the implementation and use of fundamental digital components
- Assist a laboratory section that covers an introduction to C programming & basic software development skills

Ka'ala Systems Technology Corporation (AKM Technologies)   Honolulu, HI
Part-Time Web Developer   December 2017 – Present
- Implementing new site content architecture and navigation scheme for company website redesign
- Creating website using React and NodeJS focusing on content auto population components

RevaComm   Honolulu, HI
Software Intern   May 2018 – August 2018
- Led in the development of an HTML5 video player interface with an integrated presentation mode
- Designed and developed a graph generation page to parse and display data for comparison & analysis

RevaComm   Honolulu, HI
Software Intern   May 2017 – August 2017
- Setup an automated end-to-end testing solution using NightwatchJS for a browser-based application
- Wrote testing scripts using Javascript and CSS/Xpath selectors to monitor site usability and report malfunctions
- Scripts reported feedback on website overload, response times, and memory storage

Project:

DuckieTown (University of Hawaii at Manoa)   May 2018 – Present
- Researching traffic optimization through an autonomous vehicle system using AI/robotics and computer vision
- Developing recognition software in Python using OpenCV to safely navigate and map a town

Hale Manoa (University of Hawaii at Manoa)   January 2018 – May 2018
- Developed website to post & view student housing options using React components and Meteor framework
- Focused on group management & messaging functionality using MongoDB

Micromouse (University of Hawaii at Manoa)   August 2017 – December 2017
- Developed firmware in C for a STM32 microprocessor to drive DC motors with a closed-loop control system
- Implemented adaptive intelligence through movement controllers & cell mapping to solve a maze

Memberships:

IEEE Student Branch: Member (2017 – Present)   Eta Kappa Nu (HKN) Delta Omega: Vice President (2018 – Present)