

JACK LECKRONE

Los Gatos, CA | jack.leckrone5@gmail.com | 408-300-3384

[LinkedIn](#) [GitHub](#) [Website](#)

Education

University of California, Santa Cruz – B.S. Computer Science (GPA: 3.35 Major / 3.19 Overall) Sept. 2016 – June 2020

- Excelled in courses implementing algorithms and data structures to build mobile and web applications, data visualizations, and computer graphics, along with systems design principles (Synchronization, Multithreaded HTTP, Caching)
- Strong focus on programming in JavaScript, Python, C, and Java
- Completed Coursework: Algorithms and Data Structures, Computer Architecture, Computational Models, Computer Graphics (JavaScript and WebGL), Intro to Software Engineering, Computer Systems Design (C / C++), Comparative Programming Languages, Database Systems (PostgreSQL), Programming for Data Visualization, Web Applications

University of California, Santa Cruz – B.A. Economics (GPA: 3.41 Major / 3.19 Overall) Sept. 2016 – June 2020

- Thorough understanding of econometrics, regression analysis, and hypothesis testing

Projects

AlgoVis – Front End Web Application April 2021

- Created AlgoVis to refine my knowledge of popular sorting algorithms and their implementation differences, hopefully it can help those learning computer science visualize how these daunting algorithms work
- Built with React and Redux – JavaScript

TheWave – Full Stack Mobile Application Feb. 2021 – Present

- For fun, designing and developing an iOS mobile app to encourage fellow drivers and car enthusiasts to connect while out on the road. As an avid car enthusiast, I wish there were an easier way to connect with other enthusiasts' social medias, so I'm creating a solution myself!
- Built with React Native and Firebase with Redux – JavaScript

Video Hub App – Open Source, Front End Jan. 2021 – Feb. 2021

- Helped creators easily organize, navigate, and view additional details about their video files by implementing functionality to display FPS for an open-source desktop app
- Built with Angular and Electron with FFmpeg– TypeScript, HTML, JSON

sButtons – Open Source, Front End January 2021

- Reformatted webpages and resolved website bugs for an open-source library of simple JavaScript buttons that anyone can seamlessly incorporate into their next project
- Built with Bootstrap, JavaScript, HTML & CSS

Data Visualizations – Course April 2020 – June 2020

- Created 6 interactive web-based data visualizations presented as bar graphs, multi-line graphs, scatter plots and TopoJSON maps to visualize countries' GDP, energy consumption, population density, and other economic factors
- Wrote Python scripts to automatically select and transform the most important data in multi-thousand-point csv datasets
- Built with D3.js – JavaScript, HTML & CSS, Python

Web Applications – Full Stack, Course April 2020 – June 2020

- Designed and deployed a single-page, forum-style website through 4 iterative projects that allowed users to signup/login, add posts, respond to posts, edit/delete their posts, and like/disklike posts
- Frontend: Vue.js – JavaScript, HTML & Bulma CSS, XML, AJAX. Backend: Py4Web – Python, SQLite, RestAPI (like GraphQL)

Project Quiet Place – Full Stack Mobile Application Sept. 2019 – Dec. 2019

- Developed an iOS and Android mobile app in 10 weeks with a 5-person, SCRUM based agile development group to help housemates be more courteous of noise and avoid confrontations caused by high noise levels
- Built with React Native and Firebase with Jest Unit Testing – JavaScript

Awards: Dean's Honors Fall 2019, Winner of Xilinx Capstone Project Showcase 2016