JACK LECKRONE

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LinkedIn   GitHub   Website

EDUCATION

UNIVERSITY OF CALIFORNIA, SANTA CRUZ | Cum. GPA: 3.19   Sept. 2016 – June 2020

B.S. **Computer Science** | Major GPA: 3.35
- Strong focus on programming in **JavaScript**, **Python**, **C**, and **Java**
- 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)
- 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

B.A. **Economics** | Major GPA: 3.41
- Thorough understanding of econometrics, regression analysis, and hypothesis testing

Dean's Honors Fall 2019

PROJECTS

ALGOVIS | Web Application   April 2021
- Created AlgoVis with **React** and **Redux (JavaScript)** to refine my knowledge of popular sorting algorithms and their implementation differences, and help those learning computer science visualize how these daunting algorithms work
- Experience Selection, Insertion, Bubble, Gnome, Quick, Merge, and Heap Sorts

THEWAVE | Mobile Application   Feb. 2021 – Present
- For fun, designing and developing an iOS mobile app with **React Native** and Firebase with **Redux (JavaScript)** 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!

VIDEO HUB APP | Open-Source   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)

DATA VISUALIZATIONS | Course   April 2020 – June 2020
- Created 6 interactive web-based data visualizations with **D3.js** presented as bar graphs, multi-line graphs, scatter plots and TopoJSON maps to visualize countries' GDP, energy consumption, population density, and parallel economic factors
- Wrote **Python** scripts to automatically select and transform the most important data in multi-thousand-point csv datasets

WEB APPLICATIONS | Course   April 2020 – June 2020
- Designed and deployed a single-page, forum-style website with **Vue.js** and **Py4Web** through 4 iterative projects that allowed users to signup/login, add posts, respond to posts, edit/delete their posts, and like/disklike posts
- **JavaScript** frontend with HTML & Bulma CSS connected by XML and AJAX to with **Python** backend with SQLite and restful API called RestAPI, inspired by GraphQL

PROJECT QUIET PLACE | Mobile Application   Sept. 2019 – Dec. 2019
- Developed an iOS and Android mobile app on **React Native** and Firebase with **Jest** Unit Testing in 10 weeks as part of a 5-member, SCRUM based agile development group to help housemates be more courteous of noise and avoid confrontations caused by high noise levels

Awards

Winner of Xilinx Capstone Project Showcase 2016