Daniel Chu

Software Engineer

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EDUCATION

B.S. Bioengineering, University of California, Riverside   *Fall 2016 - Spring 2020*

PROJECTS

Full-Stack E-Commerce Website | techcenterapp.herokuapp.com
- Developed a full-stack e-commerce application with complete cart and checkout functionality, Paypal and credit card integration, admin/customer accounts, product management and user authentication
- Built a responsive, mobile-first single page application using **React, React Router,** and **Bootstrap**
- Integrated **Redux** to manage global state such as product, user, and order information
- Utilized **Node** and **Express** to access/update product and user information from **MongoDB** database

Cryptocurrency Tracker Project | dann-y.github.io/crypto-viewer-react
- Developed an application which displays data from 100+ cryptocurrencies via the CoinGecko **API**
- Implemented a mobile-first, single page design using **React, React Router** and **TailwindCSS**
- Created a watch list functionality using **Redux** state management and local storage

Personal Portfolio Project | danny-chu.com
- Developed a fast-loading one page portfolio website to document personal engineering work using **Gatsby.js, React, React Hooks, GraphQL, HTML, CSS,** and **Javascript**
- Designed and styled a responsive, mobile-first site layout using **Figma, Bootstrap,** and **Sass**

WORK EXPERIENCE

Undergraduate Researcher, B2K Lab at UC Riverside   *April 2019 - June 2020*
- Coordinated with UCR Bioengineering professors and a PhD student to develop a new technology aiming to innovate DNA synthesizing technologies
- Programmed 3D simulations of fluid-particle interactions within the DNA synthesis system, including custom functions using **C language**

Senior Design, UC Riverside   *Fall 2019 - Spring 2020*
- Collaborated with a team of four classmates to develop a novel instructive inhaler device fabricated using an Arduino microcontroller and various sensors encased in a custom-designed 3D-printed shell
- Programmed critical device functions such as data collection and aural/visual output using **C++**

UI/UX Design Consultant, Archived.co   *August 2020 - November 2020*
Website Redesign and Mobile Application Ideation
- Designed a modern, user-friendly, and responsive user interface for a prospective peer to peer online marketplace using **Adobe XD**

TECHNICAL SKILLS

Languages: HTML, CSS, Javascript (ES6+)
Frameworks: React.js, Sass, Bootstrap, TailwindCSS, jQuery, Express.js, Three.js
Tools/Technologies: Redux, Gatsby.js, Node.js, MongoDB, WebGL, Git / Github, Netlify, Heroku
Design Software: Figma, Sketch, Adobe XD, Adobe Photoshop, Adobe Illustrator