JAMES MCCULLOUGH

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Intro

Hello! I am an aspiring professional software developer. I have a passion for programming, and I'm fascinated by web development, data analysis, machine learning and low-level communication protocols.

Projects

React.js Portfolio Website
- Page layout mockups designed in Figma
- Front-end developed in React.js with react-router for client-side routing
- CSS media queries used for mobile device support
- Hosted on Google Firebase with support for analytics

NES_Keyboard Arduino Library
- Allows users to play modern game emulators with analog NES game controllers
- Handles serial communication between NES game controller and user computer via USB
- Allows user to press keyboard keys with buttons of game controller
- Developed with C++

Work Experience

Research Assistant — U.C. San Diego
Machine Learning for Social Science Lab
Oct. 2017 - Dec. 2018:
- Developed a database server in R with a SOAP-ful API
- Instructed team members and superiors on various web-based technologies such as HTML, XML, WSDL, web servers and the SOAP protocol
- Extensively researched R documentation to identify CRAN packages which were best suited to server development
- Wrote detailed technical reports and regularly presented research findings to superiors and team members during weekly meetings

Education

B.S. Computer Science & B.A. Economics
University of California, San Diego
Graduated: December 2018
GPA: 3.537

Relevant Coursework

Web Mining & Recommender Systems, Object-Oriented Programming, Algorithms & Data Structures, Networked Systems, Computer Architecture, Operating Systems, Design Patterns and Agile Development

Technical Skills

Languages	Years of Experience	Tools	Years of Experience
Python, Java, C/C++	5+	Git, Bash, Linux	5+
R	2+	AWS, Redshift, Node.js	1
HTML/CSS, SQL	2	Firebase, Excel	1
JavaScript/React.js	2		

A Little Bit About Me

In my free time I enjoy playing guitar, reading, swimming, hiking and cooking. I wrote my first programs in Logo when I was 10 and built my first website (about skateboarding) when I was 11. I love building new things, finding new hobbies and exploring new places!