Vivian Li

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Portfolio: vml39.github.io
Github: github.com/vml39
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Education

Cornell University / expected May 2020
B.A. in Information Science & French
Cumulative GPA: 3.85

Relevant Coursework

Object-Oriented Programing & Data Structures
Computing Using Python
Design & Programming for the Web
iOS Development
Crowdsourcing & Human Computation
Computational Sustainability

Experience

Jet Propulsion Laboratory / June 2019 - August 2019
Frontend & Software Developer Intern

- Developed a frontend application to simulate the drive and vision of the Mars 2020 Rover in a 3D animation upon user input of rover commands, in React.js
- Implemented node packages and dependencies such as react-ace and react-table, as well as a Three.js simulator into the frontend application
- Modified and fixed bugs in the expansive Mars 2020 flight software and rover simulation software, requiring a deeper understanding of the existing code, in C

GlaxoSmithKline / June 2018 - August 2018
Software Developer Intern, Tech Platforms

- Conceptualized, designed, and created a web and mobile Chrome app as a central technology hub for over 100,000 company employees to contain their work calendar events, tasks, messages, etc. in one location
- Developed and launched an autonomous bot and bot manager platform for the Facebook WorkPlace app using the botkit framework, in Node.js and jQuery
- Contributed to the design of the Marketplace as a platform for software developers to collaborate and share resources such as code, design guidelines, and protocols

Cornell University Sustainable Design (CUSD) / September 2017 - Present
Currents Team CS Lead, Software Developer

- Created an application that controls the HVAC systems of single occupany rooms on campus for optimal energy usage
- Managed the Computer Science team in the development of the iOS Application, prediction algorithm, and server
- Implemented the server through which all of the data used in the prediction algorithm is processed then outputted to a microcontroller for the HVAC system, using Node.js
- Designed the prediction algorithm which takes in input stored in a PostgreSQL database including location, calendar, and motion sensing data, and predicts when the system should be on or off for each user's room
- Conceptualized, designed, and implemented a new centralized active member and alumni database for hundreds of present and past CUSD members to use, using Sketch, Node.js, HTML, and CSS

Web Design & Programming Teaching Assistant / August 2018 - Present

- Led a weekly lab for 30 students and taught them principles of UX and web design using HTML, CSS, and JavaScript
- Assisted students in understanding course material through office hours and online Piazza posts

Skills & Interests

Programming Python / Java
Web Development Javascript / React.js / HTML / CSS / SQLite / PostgreSQL / PHP
Craft Sketch / Adobe Creative Suite
Languages Chinese / French