

# Vivian Li

Information Science student looking for a full-time position in software or full stack engineering.

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## Education

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**Cornell University** / expected May 2020

B.A. in Information Science & French, Minor in Computer Science

Cumulative GPA: 3.86

### Relevant Coursework

Object-Oriented Programming & Data Structures / Computing Using Python / Data Structures & Functional Programming

Design & Programming for the Web / UX & Software Design Studio / Language & Information

Human-Robot Interaction: Algorithms & Experiments / Rapid Prototyping & Physical Computing

## Experience

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**NASA Jet Propulsion Laboratory** / June 2019 - August 2019

Frontend & Software Developer Intern, Mars 2020 Mission

- Developed a frontend application to simulate the drive and camera views of the Mars 2020 Rover in a 3D animation upon user input of rover commands, in React.js
- Simplified the process for users to plan, execute, and verify command sequences in uplink by implementing a live text editor, three.js 3D simulator, and data table into the application
- Worked with various APIs and AWS to run backend computations and deploy the application, and implemented and modified node packages such as react-redux and react-ace

**Cornell University Sustainable Design (CUSD)** / September 2017 - Present

Currents Team CS Lead, Software Developer

- Created an application that controls the HVAC systems of single occupancy rooms on campus for optimal energy usage
- Managed the Computer Science team in the development of the mobile application, prediction algorithm, and server
- Implemented the server that processes and outputs the prediction algorithm data to a microcontroller controlling the HVAC system, using Node.js
- Designed the prediction algorithm which takes input stored in a PostgreSQL database such as 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

**Guimbretière Design Lab** / September 2019 - Present

- Developed a robotic system to remotely control the movement of a Beam telepresence robot using data collected from an Xbox Kinect that tracks user movements and gaze, using ros
- Implemented robot mapping and obstacle avoidance with the use of a camera and infrared sensors, and designed hardware modifications to the original Beam robot

**GlaxoSmithKline** / June 2018 - August 2018

Software Developer Intern, Tech Platforms

- Developed 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

## Skills & Interests

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**Programming** Python / Java / OCaml

**Web Development** Javascript / Node.js / React.js / Vue.js / HTML / CSS / SQLite / PostgreSQL / PHP

**Craft** Sketch / Adobe Creative Suite

**Languages** Chinese / French