Jonathan Lam
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SKILLS

Technologies/Software: JavaScript (ES6), Node.js, Angular 2+, React.js, Vue.js, HTML5, CSS3, Sass, Bootstrap, MySQL, PostgreSQL, PHP, C, C++, Java, Linux, GIMP
General skills: Critical thinking, collaboration, written communication, full-stack development, web development, English (native), Spanish and Chinese (elementary)

EXPERIENCE

Consignmore, New York, NY
Software Engineer Intern, November 2018-Present

- Currently designing an online platform to create a convenient flow of information transfer for auction houses, both internally between employees and externally to consignors.

Optum Labs of Florida, New York, NY
Software Engineer Intern, July 2018-November 2018

- Built and advised on informational websites for the myGUT X22 and RespHealth X21 health products with Vue.js and Bootstrap.
- Improved client information access and added convenient methods of searching for affiliated doctors and buying the products.

Safe Rides of Redding and Easton, Redding, CT
Software Engineer, November 2017-May 2018

- Actively communicated with founders of the Safe Rides service that provides high schoolers with a trusted, reliable way home to make a mobile-friendly web-app using Angular and websockets.
- Web-app serviced over 70 volunteers and a dozen Safe Ride requests, streamlining the request/volunteer process by making it paperless and updating volunteer locations in real-time.
- Attended sessions and instructed volunteers on the use of the web-app.

Freelance Software Engineer, 2015-Present

- Currently working with school's student banker to modernize the the university's student-run websites into a "fusion" website using the MERN stack, aiming to improve performance and unity.
- Collaborated with chemistry team to create an Android (Java) mobile app to aid analysis of colorimetric chemical test strip, developed as a low-cost alternative to modern methods of blood glucose testing for diabetics as part of an engineering course.
- Built a variety of engaging museum exhibits for children related to mathematics and science topics such as polynomial regressions, pendulum dynamics, the doppler effect, function graphing, and function periods for the Museum of Mathematics using JavaScript, Java, and Mathematica.
- Created an interactive online multiplayer driving simulation and "Fruit Sensei" clone using JavaScript and websockets, in which player movement is controlled by smartphone orientation.
- Developed a heuristic to calculate player Varsity fitness for members of the JBHS bowling team and a website to display statistics, easing planning responsibilities for team leaders.

EDUCATION

The Cooper Union for the Advancement of Science and Art, New York, NY
Bachelor of Engineering (B.Eng.), Electrical Engineering, Computer Engineering Track, May 2022

- Took Digital Logic Design, Programming for Electrical Engineers, Data Structures and Algorithms I
- Cumulative GPA: 4.00/4.00