Henry Mao

Summary

Junior software developer recently graduated from Lighthouse Labs bootcamp seeking software development positions that allow me to pursue my passion in problem solving. I was previously studying electrical engineering at UBC. When COVID hit, courses were cancelled and my degree progress got halted. It pushed me to make the decision to fully transition to software development as I feel more capable of solving more problems with more tools and less constraints. My preferred stacks are React, Jquery and Ruby on Rails.

Contact

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Projects

- *Interview Scheduler* (Aug. 2020) [Github Link](#)
Built a React application that allows users to book and cancel interviews. Deployed the server on heroku, the site on netlify and used CircleCI for continuous integration.
- *Wiki-Map* (Jul. 2020) [Github Link](#)
Built a full stack web app with Jquery, Express and SQL that allows users to create and favourite maps each with a collections of points with editable descriptions and images.
- *TinyApp* (Jun. 2020) [Github Link](#)
Built a full stack web app with Node.js and Express that allows users to shorten long URLs and have it clickable for anyone.
- *Tweeter (Jul. 2020)* [Github Link](#)
A Single Page App (SPA) built with HTML, CSS, JS, jQuery and AJAX on the client-side, and Node, Express and MongoDB on the server-side.
- *RISC (Reduced Instruction Set Computer)* (Nov. 2018)
Built a RISC machine in verilog with Quartus for compilation and ModelSim for testbenches. Optimized code for performance.
- *Reflow Oven Controller* (Feb. 2019)
Made an Embedded oven controller using Pulse-width Modulation with thermocouple wire programmed with Assembly 8051. It operates with configuration menu, SMS text updates, timers, LCD and alarm.
- *Coin Picking Robot* (Apr. 2019)
Assembled a robot with a microcontroller, electromagnetic arm for coin grabbing, inductors for boundary sensing and tuning capabilities.

Technical skills

- Express
- Node.js
- Jquery, Ajax
- React, storybook, Axios
- Cypress, Jest
- Circuit Analysis
- ModelSim
- Quartus
- FPGA
- git, version control

Languages

- English
- Mandarin
- Javascript
- HTML, CSS
- SQL
- Ruby
- Verilog, SystemVerilog
- ARM Assembly
- Swift
- C, C++

Education

- Lighthouse Labs: Full-Stack Web Development
- UBC: Electrical Engineering (pursing, fourth year)
- Semiahmoo Secondary School: IB (International Baccalaureate)