QICHUAN(HENRY) MAO

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SUMMARY

Software developer recently graduated from Lighthouse Labs Bootcamp seeking software development positions that allow me to pursue my passion for 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 fewer constraints. My preferred stacks are React, Jquery and Node.js.

EDUCATION

Sept. 2015 to Current 2021	**University of British Columbia** Bachelor's Electrical Engineering
June 2020 to Sept. 2020	**Lighthouse Labs** Full-time Web Development

SKILLS

TECHNICAL	Node.js, Express, Jquery, Ajax, React, Storybook, Axios, Cypress, Jest, Circuit Analysis, Circuit Design, ModelSim, Quartus, FPGA, Git, Version Control, Ruby on Rails
LANGUAGE	Javascript, Typescript, C++, C, HTML, CSS, SQL, Ruby, Verilog, SystemVerilog, ARM, Assembly, Swift, English, Mandarin

PROJECTS

Aug. 2020	**Interview Scheduler** 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.
July 2020	**Wiki-Map** Built a full-stack web app with Jquery, Express and SQL that allows users to create and favourite maps each with a collection of points with editable descriptions and images.
June 2020	**TinyApp** Built a full stack web app with Node.js and Express that allows users to shorten long URLs and have it clickable for anyone.
July 2020	**Tweeter** 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.
Nov. 2018	**RISC (Reduced Instruction Set Computer)** Built a RISC machine in Verilog with Quartus for compilation and ModelSim for test-benches. Optimized code for performance.
Feb. 2019	**Reflow Oven Controller** 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.
Apr. 2019	**Coin Picking Robot** Assembled a robot with a microcontroller, electromagnetic arm for coin grabbing, inductors for boundary sensing and tuning