Richard Liu

I am a high schooler with an affinity for web development, having created numerous websites for clubs and groups. I am also interested in using a functional approach to solving coding problems.

EDUCATION

Monta Vista High School, Cupertino, CA — *9–12th grade*

AUG 2017 - JUN 2021

EXPERIENCE

Webmaster, Monta Vista Digital Humanities Club

AUG 2020 - PRESENT

Built and maintained website for Digital Humanities club at Monta Vista. Used React and Gatsby to build the front end and Firebase and other CMS tools for the backend. Website is live at https://mvdh.club

Software Developer, Maatcha

APR 2020 - JUN 2020

Built a social media platform for local high school students to connect based on common interests. Worked with five other developers on React frontend and Firebase backend. The website had ~500 users at its peak. (https://maatcha.me)

Webmaster, BSA Troop 485

AUG 2017 - MAR 2019

Created and maintained a website for a Boy Scout troop of ~100 people. Website contained complex functionality like a directory and user authentication. (https://www.t485.org)

ACHIEVEMENTS

Actuarial Competition, Modeling the Future — *2nd place*

FEB 2020 - APR 2020

Worked with three other students on a paper about the impact of climate change on corn production and the insurance industry in Minnesota. Won 2nd place out of 170 teams in nationwide competition and published a paper in the Actuarial Research Clearing House.

Hackathon, Hyphen Hacks— *2nd place*

OCT 2019

Won second place overall. Created a time management app that utilizes peer pressure to motivate users. https://github.com/jeffreymeng/focus

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SKILLS

Web development (React, Typescript, Gatsby, Firebase)

Functional programming (Haskell, Elm)

Linux & systems programming (Rust, Bash)

PORTFOLIO

Competitive Programming website (https://mvcpc.org)

SBMT Website (https://southbaymt.org)

Gregg Shorthand Dictionary (https://gregg.surge.sh)

MVDH Club Website (https://mvdh.club)

Maatcha (https://maatcha.me)

T485 Website (https://t485.org)

Focus Productivity App (https://github.com/jeffreymeng/focus)

Writelet App (https://github.com/richyliu/writer)