

# Richard Liu

I am a freshman at UIUC with an affinity for web development, cybersecurity, and systems programming. I am also interested in using a functional approach to solving coding problems.

## EDUCATION

### University of Illinois at Urbana-Champaign

AUG 2021 - MAY 2025 (anticipated)

### Monta Vista High School, Cupertino, CA — 9-12th grade

AUG 2017 - JUN 2021

## EXPERIENCE

### 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

### CSAW CTF, NYU Tandon School of Engineering — 2nd place

SEP 2021

Participated in one of the largest college-level CTFs (cybersecurity contest) in the country. Worked with others in solving unique challenges related to reverse engineering and binary analysis. Solved two challenges independently and helped with two other challenges.

### 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.

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## SKILLS

Web development (React, Typescript, Gatsby, Firebase)

Linux & systems programming (Rust, Bash)

Functional programming (Haskell, Elm)

## PORTFOLIO

[Gregg Shorthand Dictionary](#)  
— ReactJS

[Plojo stenography translator](#)  
— Rust

[Competitive Programming Club website](#) — ReactJS, Gatsby

[Maatcha](#) — ReactJS, Firebase

[SBMT Website](#)

[MVDH Club Website](#)

[T485 Website](#) — Firebase