

Katherine M. Huang

katmh@mit.edu | katmh.com | github.com/katmh | (978) 662-8678

I enjoy* a good API.

*consuming, implementing, reading, reading about, writing about, breaking, testing against, etc.

Education

Massachusetts Institute of Technology

Sep 2019 - May 2023

B.S. Computer Science and Engineering

Select coursework: Software Performance Engineering, Design and Analysis of Algorithms, Computation Structures, Linear Algebra and Optimization, Network Cultures, Chinese I-IV

Recurse Center (A self-directed educational retreat for programmers)

Jan 2021 - Feb 2021

Experience

Primer - Software Engineering Intern

May 2022 - Aug 2022

- Built a kids' chess club end-to-end with two other engineers, involving a non-trivial custom deployment of Lichess (open-source chess server), backend/API design, and websockets

Cohere AI - Software Engineering Intern

May 2021 - Aug 2021

- Made improvements to company website and product frontend using React and Svelte: asset lazy-loading, tooltips, form validation, and content management system integration

Gatsby - Generalist Intern

May 2020 - Aug 2020

- Worked with CTO to prototype new section of company website highlighting use cases
- Led migration of company blog (300+ posts) across content management systems, including writing command-line scripts and porting complex React components across codebases
- Wrote blog posts summarizing technical talks given at company's annual conference

MIT Senseable City Lab - Web Developer

Jan 2020 - May 2020

- Built interactive dashboard of air quality data using D3, Mapbox, and Rollup
- Translated static mockups and municipal partners' feedback into software architecture choices

University of Massachusetts - Bioinformatics Research Asst.

Jul 2018 - Aug 2018

- Wrote R scripts to analyze large DNA methylation, gene expression, and gene ontology datasets
- Published first-author paper in *Evolution*: doi.org/10.1111/evo.14184

Personal Projects

Out of IPs (source): Interactive explainer about IP addresses (featured in [gallery](#) for Idyll language)

MITier (source): Drag and drop to generate tier rankings of MIT courses; includes documentation and configuration file to easily customize to other schools

We Are America (source): Gallery of hundreds of audio stories from classrooms nationwide, with content management system for multiple non-technical admins, ongoing since 2019

MAHacks: Branding and website for Boston-area high school hackathon I organized

Skills

Full-stack web development, UI/UX design, data analysis, low-level performance engineering, copywriting, technical teaching and communication

Tools: TypeScript, React, Node.js, GraphQL, Python, C, HTML, SCSS, D3, Figma, git/GitHub