

Katherine M. Huang

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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: Distributed Systems, Software Performance Engineering, Algorithms, Machine Learning
- TA'd for Software Engineering, Introduction to Programming

Recurse Center

Jan 2021 - Feb 2021

- Participated in a self-directed educational retreat for programmers. Built an interactive [IP address explainer](#), a [tier-ranking site](#) for college courses, and [\[synonymous phrase generator\]-generator](#)

Experience

Fractional - Software Engineer

July 2023 - Present

- Leading a project to automate generation of profit and loss reports, saving weeks of time for operations team
- Building full-stack social and finances features with React, Node.js, TypeScript, GraphQL, Postgres

Primer - Software Engineering Intern

Summer 2022

- Made an online chess club for kids. Collaborated with designer, operations, external partner organization, and two other engineers to brainstorm and plan the product. Implemented real-time, multi-player tournaments and games with WebSockets and architected backend communicating with a custom Lichess server deployment

Cohere - Software Engineering Intern

Summer 2021

- Made various improvements to company website and product (GUI for LLM APIs) with React and Svelte: asset lazy-loading, tooltips, form validation, and integration with content management system

MIT CSAIL Visualization Group - Undergraduate Researcher

Sep 2020 - Feb 2021

- Wireframed and helped write interactive web essay about COVID anti-maskers' use of data visualization
- Implemented network graph and filterable gallery components with React and D3.js

Gatsby - Generalist Intern

Summer 2020

- Led migration of company blog (300+ posts) across content management systems. Wrote command-line scripts and ported complex React components across codebases
- Researched how companies use Gatsby and worked solo with CTO to synthesize findings into a new [section](#) of the company website
- Wrote blog posts summarizing technical talks given at company conference, well-received by the speakers

MIT Senseable City Lab - Web Developer

Jan 2020 - May 2020

- Created dashboard of air quality time-series data with D3.js, Mapbox GL JS, Rollup. Received open-ended, non-technical specifications and made my own decisions on software stack, architecture / refactors, UI details

Replit - Community Intern

Summer 2019

- Interviewed users, marketed online hackathon, edited newsletter. Participated in inaugural Y Combinator Intern at a Startup cohort

University of Massachusetts - Bioinformatics Research Assistant

Summer 2018

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

Tools

TypeScript, React, Node.js, GraphQL, Postgres, HTML, SCSS, Figma, git/GitHub, Golang, Python, C