Yihui Hu

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SKILLS

- **Languages**   C, C++, HTML/CSS/JavaScript, Java; Learning Python, SwiftUI
- **Frameworks/Libraries/Etc.**   React, Next.js, Node, MongoDB, Express, AWS, Framer Motion
- **Tools**   Git, Figma, Sketch, Adobe Photoshop & Illustrator, Visual Studio Code

EDUCATION

Tufts University   Medford, MA
B.S. in Computer Science, GPA 4.0   **May 2024**

- **Coursework**:   Machine Structure & Assembly, Algorithms, Data Structures, Database Systems, Web Programming, OOP Graphical User Interface, Linear Algebra, Discrete Math
- **Community:**   Newsletter Editor, Tufts Product Studio; Developer, JumboCode

EXPERIENCE

JumboCode   **Oct 2022 — now**
Developer   *Medford, MA*
- Working with 10 other student developers to build a web app using React, TypeScript, MongoDB and Prisma for MassKids, a non-profit organization
- In charge of connecting frontend elements to backend APIs and related infrastructure
- Pair-programming with other members, completing biweekly tickets under the Agile methodology

UniBridge SG   **Jul 2021 — May 2022**
Design & Marketing Lead   *Singapore*
- Led design for overall brand development and identity of UniBridge
- Mentored new members on using Figma for design organization and maintenance
- Worked closely with Events team on newsletter initiatives using Mailchimp

Ease Healthcare   **Nov 2020 — Dec 2020**
Design Intern   *Singapore*
- Created various illustrations and animations for Ease's blog, Instagram, and testing kits

PROJECTS

henesys — https://henesys.online   **Dec 2022 — now**
- A barebones, community-focused & PWA-ready bookmarking app (think [Are.na](Are.na)/Pinterest)
- Designed for super fast addition and lookup of bookmarks (images, URLs, text, files etc.) with tag-based system
- Built using React & Next.js 13, implemented custom text, URL & file upload APIs, as well as authentication with JWT, bcrypt and Nookies. AWS S3, MongoDB and mongoose used for the database/storage.

arithJS — https://arith.vercel.app   **Nov 2022**
- CLI image (de)compressor built in C, ported to JavaScript as a GUI on the web
- Built custom table for ASCII encoding/decoding, refactored discrete cosine transformations, quantization and bit manipulation logic required for (de)compression.

pokéSearch — https://pokesearch.xyz   **May — Jun 2022**
- A simple, streamlined encyclopaedia of Pokémon
- Built using React, data extracted from PokéAPI using Axios