Yihui Hu

781-957-8508 | yihui.hu@tufts.edu | linkedin.com/in/yihuihu | github.com/yihui-hu | yihui.work

EDUCATION

Tufts University   Medford, MA
B.S. in Computer Science, 3.98/4.0 GPA   *Sep. 2021 – May 2025*

- **Relevant Coursework**: Data Structures, Algorithms, Machine Structure & Assembly, Database Systems, Web Programming, OOP Graphical User Interface, Linear Algebra, Discrete Math

EXPERIENCE

Markit Social   May 2023 – Present
Software Engineer Intern   *Boston, MA*

- Implemented feature for users to link contacts, with 20x improvement in speed of initial iteration
- Revamped and optimized React webapp for a more frictionless ticket-buying experience
- Streamlined and refactored backend Firebase functions, future-proofing support for upcoming features
- Enhanced customer experience insights by implementing Mixpanel in previously untracked areas
- Utilized Slack, Twilio, and Stripe APIs to identify irregularities in transactions or bulk text messages

JumboCode   Oct. 2022 – May 2023
Developer   *Medford, MA*

- Worked with 10 other student developers to build a web app using React, TypeScript, MongoDB and Mongoose for MassKids, a non-profit organization
- Connected frontend to backend APIs and related infrastructure, handling deployment using Vercel and Firebase
- Pair-programmed 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

PROJECTS

henesys | *React, AWS, MongoDB*   Dec 2022 – Present

- A barebones, community-focused & PWA-ready bookmarking app (think Are.na / Pinterest)
- Designed for super fast addition and lookup of bookmarks with tags-based organization system
- Implemented custom text, URL & file upload APIs, alongside custom authentication with JWT and bcrypt

Figma Competitive Design Plugin | *TypeScript, HTML, CSS*   Apr 2023 – Present

- Competitive programming but for designers, utilising Figma's plugin API
- A mind sport to see who can best reproduce the design of a random website / UI under time constraints

arithJS | *C, JavaScript*   Nov 2022

- CLI image (de)compressor built in C, ported to JavaScript as a GUI web app
- Built custom table for ASCII encoding/decoding; refactored discrete cosine transformations, quantization and bit manipulation logic required for (de)compression.

TECHNICAL SKILLS

Languages: C, C++, HTML/CSS/TypeScript – Learning Python, SwiftUI
Frameworks/Libraries: React, React Native, Next.js, Node, MongoDB, Express, AWS, Firebase, Redux
Tools: Git, Figma, Sketch, Adobe Photoshop & Illustrator, Visual Studio Code