

Guotong Liao

Software Engineer, Designer

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Education

Northeastern University	09/2022 - 08/2025(exp.)
Master of Science in Computer Science (GPA: 4.0/4.0)	Seattle, WA
University of California, Berkeley	09/2020 - 11/2020(quit)
Master of Architecture	Berkeley, CA
Guangdong University of Technology	09/2015 - 06/2020
Bachelor of Engineering in Urban Planning (GPA: 3.9/4.0)	Guangzhou, China

Skills

Languages: Java, C/C++, JavaScript, TypeScript, Python, Swift

Front-end: HTML & CSS, React, Redux, Vue, Pinia, Node.js, Three.js, Next.js, Tailwind CSS, Webpack, Vite

Back-end: Spring, SpringBoot, MyBatis-Plus, MySQL, Linux, AWS

Tools: Git & GitHub, Vercel, Netlify, Docker, Figma, Maven, Adobe Suite, Rhinoceros, Blender

Experience

Hippo Clinic - UCSF	03/2022 - Present
Software Engineer Intern	San Francisco, CA

- Redesigned and built the home page using React and Figma, enhancing user experience.
- Developed interactive brain models and visualization charts to display brain signals for future diagnosis.

Projects

Questopia | *HTML & CSS, TypeScript, Three.js, WebGL, GLSL, Vite*

- Built an interactive 3D model of [my room](#) using Three.js, showcasing my past and present projects.
- Implemented **dynamic blending of shader files** with GLSL and self-defined orbit control for navigation.
- Optimized model performance to ensure smooth and seamless interaction on various devices.

[Key: board] | *iOS, Swift, UIKit, Figma, Xcode*

- Built [a programmer's keyboard](#) for a better code editing experience on mobile devices.
- Redesigned keyboard layout and **swipe input gestures** using UIKit and Figma.
- Implemented multiple language modes and corresponding code snippets and autosuggestions.





King of Bots | *Java, Vue, SpringBoot, SpringCloud, MyBatis, MySQL, WebSocket, Docker, Nginx*

- Introduced an [AI battle platform](#) that supports PvP and PvE systems, deployed with Docker on cloud server.
- Built **player-matching microservice** and **code-running microservice** using SpringCloud.
- Implemented match recording feature and user account modules, provided game state synchronization using **WebSocket**, and established a mutual data flow from frontend to backend.

Archibucket | *Tailwind CSS, JavaScript, React, Next.js, Notion API, Webpack, Vercel*

- Provided an informative [website](#) for Chinese architectural news, fetching data using **Headless CMS**.
- Supported upload feature with **REST API**, global dark mode and context, and enhanced loading time by using **Server-Side Rendering** and **Incremental Static Regeneration** of Next.js.

Open Source Contributions | *JavaScript, TypeScript, Git & GitHub, Node.js*

-  **vue-use/vue-chemistry**: Added reactive math functions and test modules, gaining **340+** stars.
-  **HyperUI**: Added several toggle components using Tailwind CSS, gaining **3.9k** stars.
-  **pkg-desc**: List detail of dependencies for quick searching, weekly downloaded **190+** times.
-  **layout-visualizer**: A chrome extension for visualizing the HTML elements for designers and developers.