

# Haoyu Dong

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## Work Experience

### Peking University Institute

Frontend Developer

2023/07 – 2024/07

Changsha, China

- Developed a **LLM Chatbot** in medical field, handling front-end development using **React**, **TypeScript**, **Tailwind CSS**.
- Developed a series of data visualization projects, using **Three.js**, **Blender**, **ECharts** to create interactive and dynamic visual effects.

### Tencent Music Entertainment

Frontend Developer Intern

2022/05 – 2022/10

Shenzhen, China

- Contributed to hybrid app development for **QQ Music** and **WeSing**.
- Integrated web and mobile interactions using **React** and **TypeScript**.

## Works

### LLM Chatbot

 [Demo](#)

- Implemented **multimodal chat** (text, images), plugin system, and literature search.
- Utilized **Server-Sent Events** for streaming text output. Managed server state with **React Query** and implemented **optimistic updates** to enhanced user experience.

### Data Visualization

 [Demo](#)

- Implemented smooth camera transitions with **GSAP** and created a custom **smoke shader** for wind-related 3D scenes.
- Developed interactive features including line charts, pie charts, world maps, flying lines, and other dynamic visual effects.
- Enhanced the visualization experience, improving **model load times** and **rendering efficiency**.

### Hybrid Mobile App

 [Demo](#)

- Developed mini-games, live gifting, and ranking list displays.
- Integrated web and mobile app interactions via **JSBridge**, Contributed to related **npm packages**.

## Open Source Projects

### Comments

★ 50

- An open-source, easy-to-use comment system, uses **GitHub** for authentication and stores data in **Supabase**.
- This project has garnered over **50 stars** on [GitHub](#) and was featured in [Ruanyifeng's Weekly](#)

### Mini React

 [Demo](#)





- A Minimal implementation of **React.js** and **ReactDOM** including **fiber architecture**, **scheduler**, **hooks (useState, useEffect)**.

### Raytracing

 [Demo](#)

- Implemented a simple **raytracing algorithm** in **JavaScript**, based on concepts learned from the book *Computer Graphics from Scratch*.

### Contributions

-  **Fixed a css bug** in the official [React docs](#). ★ 10.8k
-  **Added a confetti style** and  **user custom word loop** in [qwerty-learner](#). ★ 14.8k
-  **Added a new syntax** for [Shaku](#) that lets you change the line's opacity. ★ 194

## Education

### Hong Kong Metropolitan University

Master of Computing in Computer Science

2024/09 – 2025/09

Hong Kong

### ShenZhen University

Master of Science in Materials Science and Engineering

2020/09 – 2023/06

Shenzhen, China

### Hunan University of Technology

Bachelor of Science in Construction Environment and Energy Application Engineering

2016/09 – 2020/06

Zhuzhou, China

## Skills

- Front-end:** HTML, CSS, JavaScript, TypeScript, React, Vue.js.
- Back-end:** Node.js, Express.js, Java, Python, MySQL, MongoDB.
- DevOps:** Docker, Jenkins, GitHub Actions, AWS, Cloudflare.
- Design:** Figma, Blender.
- Languages:** Chinese (Native speaker), English (Fluent), Cantonese (Fluent).

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