

# Haoyu Dong

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## Work Experience

### Peking University Institute

Web Developer

2023/07 – 2024/07

Changsha, China

#### AI Diagnosis Assistant:

- **Background:** Developed a chat application in medical field.
- **Role:** Independently handled the front-end part using **React**, **TypeScript**, **Tailwind CSS**.
- **Achievements:**
  - Implemented **multimodal chat** (text, images), plugin system, and literature search functionalities.
  - Utilized **Server-Sent Events** for streaming text output. Managed server state with **React Query** and implemented **optimistic updates** to enhanced user experience.
- **Impact:** Delivered the first MVP within **two months**, receiving positive feedback within the company.

#### 🔗 Project Demo

#### Data and 3D Visualization Project:

- **Background:** Developed a comprehensive visualization project.
- **Role:** Contributed to front-end development and modeling using **Three.js**, **Blender** and **ECharts**.
- **Achievements:**
  - 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.
- **Impact:** Enhanced the visualization experience, improving **model load times** and **rendering efficiency**.

#### 🔗 Project Demo

### Tencent Music Entertainment

Web Developer Intern

2022/05 – 2022/10

Shenzhen, China

#### Hybrid Mobile App

- **Background:** Hybrid app development for **QQ Music** and **WeSing**, focusing on the web part.
- **Role:** Developed mini-games, live gifting, and ranking list displays using **React** and **TypeScript**.
- **Achievements:**
  - Developed interactive features for live room activities.
  - Integrated web and mobile app interactions via **JSBridge**, Contributed to related **npm packages**.

#### 🔗 Project Demo

## Side 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](#)

### Open-Source 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, and related ecosystem libraries.
- **Back-end:** Node.js, Python, MySQL, MongoDB.

- **DevOps:** CI/CD pipelines, Docker, AWS.
- **Design:** UI/UX principles, responsive design, Figma, Blender.
- **Languages:** Chinese (Native speaker), English (Fluent), Cantonese (Fluent).

Last Updated on June 28, 2024