




# Haoyu Dong

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## Work Experience

<b>Peking University Institute</b> Frontend Engineer	2023/07 – 2024/07 Changsha, China
<ul style="list-style-type: none"><li>Developed a <b>Large Language Model Chatbot</b> using <b>React</b>, <b>TypeScript</b>, <b>Tailwind CSS</b>.</li><li>Developed a series of data visualization projects using <b>Three.js</b>, <b>Blender</b>, <b>ECharts</b>.</li><li>Setting CI/CD pipeline using <b>Docker</b>, <b>Jenkins</b>.</li></ul>	
<b>Tencent Music Entertainment</b> Frontend Engineer Intern	2022/05 – 2022/10 Shenzhen, China
<ul style="list-style-type: none"><li>Contributed to hybrid app development for QQ Music and WeSing.</li></ul>	








## Works

<b>Chatbot</b>	 <a href="#">Demo</a>
<ul style="list-style-type: none"><li>Implemented <b>multimodal chat</b> (text, images), plugin system, and literature search.</li><li>Utilized <b>Server-Sent Events</b> for streaming text output. Managed server state with <b>React Query</b> and implemented <b>optimistic updates</b> to enhanced user experience.</li></ul>	
<b>Data Visualization</b>	 <a href="#">Demo</a>
<ul style="list-style-type: none"><li>Developed interactive features including line charts, pie charts, world maps, flying lines, and other dynamic visual effects.</li><li>Improved <b>model load times</b> and <b>rendering efficiency</b>.</li></ul>	
<b>Hybrid Mobile App</b>	 <a href="#">Demo</a>
<ul style="list-style-type: none"><li>Developed mini-games, live gifting, and ranking list web app, contributed to related <b>npm packages</b>.</li></ul>	

## Open Source Projects

<b>Comments</b>	 50
<ul style="list-style-type: none"><li>An open-source, easy-to-use comment system, uses GitHub for authentication and stores data in Supabase.</li><li>This project has garnered over <b>50 stars</b> on <a href="#">GitHub</a> and was featured in <a href="#">Ruanyifeng's Weekly</a></li></ul>	
<b>Mini React</b>	 <a href="#">Demo</a>
<ul style="list-style-type: none"><li>A Minimal implementation of React.js and ReactDOM including <b>fiber architecture</b>, <b>scheduler</b>, <b>hooks</b>.</li></ul>	
<b>Raytracing</b>	 <a href="#">Demo</a>
<ul style="list-style-type: none"><li>Implemented a simple <b>raytracing algorithm</b> in JavaScript, based on concepts learned from the book <i>Computer Graphics from Scratch</i>.</li></ul>	

## Contributions

 <b>Fixed a css bug</b> in the official <a href="#">React docs</a> .	 10.8k
 <b>Added a confetti style</b> and  <b>user custom word loop</b> in <a href="#">qwerty-learner</a> .	 14.8k
 <b>Added a new syntax</b> for <a href="#">Shaku</a> that lets you change the line's opacity.	 194

## Education

<b>Hong Kong Metropolitan University</b> Master of Computing in Computer Science	2024/09 – 2025/09 Hong Kong
<b>ShenZhen University</b> Master of Science in Materials Science and Engineering	2020/09 – 2023/06 Shenzhen, China
<b>Hunan University of Technology</b> 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:** Mandarin (Native speaker), English (Fluent), Cantonese (Fluent).