




Haoyu Dong

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Work Experience

Peking University Institute Frontend Developer	2023/07 – 2024/07 Changsha, China
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Contributed to hybrid app development for QQ Music and WeSing.Integrated web and mobile interactions using React and TypeScript.	

Works

LLM Chatbot	 Demo
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">A Minimal implementation of React.js and ReactDOM including fiber architecture, scheduler, hooks (useState, useEffect).	
Raytracing	 Demo
<ul style="list-style-type: none">Implemented a simple raytracing algorithm in JavaScript, based on concepts learned from the book <i>Computer Graphics from Scratch</i>.	
Contributions	
<ul style="list-style-type: none"> Fixed a css bug in the official React docs.	 10.8k
<ul style="list-style-type: none"> Added a confetti style and  user custom word loop in qwerty-learner.	 14.8k
<ul style="list-style-type: none"> 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).

Last Updated on July 9, 2024