




Haoyu Dong

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Work Experience

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| 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

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| LLM Chatbot <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. |  Demo |
| Data Visualization <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. |  Demo |
| Hybrid Mobile App <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. |  Demo |

Open Source Projects

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| Comments <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 | ★ 50 |
| Mini React <ul style="list-style-type: none">A Minimal implementation of React.js and ReactDOM including fiber architecture, scheduler, hooks (useState, useEffect). |  Demo |
| Raytracing <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>. |  Demo |
| Contributions <ul style="list-style-type: none">🔗 Fixed a css bug in the official React docs.🔗 Added a confetti style and 🔗 user custom word loop in qwerty-learner.🔗 Added a new syntax for Shaku that lets you change the line's opacity. | ★ 10.8k ★ 14.8k ★ 194 |

Education

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| 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 2, 2024