Haoyu Dong

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Work Experience

Peking University Institute

2023/07 - 2024/07

Frontend Engineer

Changsha, China

- Developed a Large Language Model Chatbot using React, TypeScript, Tailwind CSS.
- Developed a series of data visualization projects using Three.js, Blender, ECharts.
- Setting CI/CD pipeline using **Docker**, **Jenkins**.

Tencent Music Entertainment

2022/05 - 2022/10

Frontend Engineer Intern

Shenzhen, China

• Contributed to hybrid app development for QQ Music and WeSing.

Works

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 F Demo

- · Developed interactive features including line charts, pie charts, world maps, flying lines, and other dynamic visual effects.
- Improved model load times and rendering efficiency.

Hybrid Mobile App

€ Demo

• Developed mini-games, live gifting, and ranking list web app, 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 F Demo

• A Minimal implementation of React.js and ReactDOM including **fiber architecture**, **scheduler**, **hooks**.

Raytracing F 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

• **\(\frac{\ho}{\ho} \) Added a new syntax** for <u>Shaku</u> that lets you change the line's opacity.

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Education

Hong Kong Metropolitan University

2024/09 - 2025/09

Master of Computing in Computer Science

Hong Kong

Master of Science in Materials Science and Engineering

2020/09 – 2023/06 Shenzhen, China

Hunan University of Technology

2016/09 - 2020/06

Bachelor of Science in Construction Environment and Energy Application Engineering

Zhuzhou, China

Skills

- Front-end: HTML, CSS, JavaScript, TypeScript, React, Vue.js.
- Back-end: Node.js, Express.js, Java, Python, MySQL, MongoDB.
- ${\bf DevOps}$: Docker, Jenkins, GitHub Actions, AWS, Cloudflare.
- **Design**: Figma, Blender.

ShenZhen University

• Languages: Mandarin (Native speaker), English (Fluent), Cantonese (Fluent).