DONG Haoyu │Programmer

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Basics

- **Availability**: October 2025
- **Salary Expectation**: 22,000-25,000 HKD/month (Negotiable)
- **VISA Status**: Currently hold Immigration Arrangements for Non-local Graduates (IANG) VISA
- **Languages**: Mandarin(Native), Cantonese(Intermediate), English(Intermediate)

Skills

Web Development: Advanced **Keywords**: HTML, CSS, JavaScript, React, Vue.js, Node.js, Python, SQL, NoSQL

DevOps: Intermediate **Keywords**: Docker, Linux, Nginx, Git

Design: Beginner **Keywords**: Figma, Blender

Work

Web3.0 Technology Limited **Hong Kong**
Frontend Developer Intern *Nov 2024 – Apr 2025*
- Participated in the web development of the Central Node 55 event

PKU-Changsha Institute for Computing and Digital Economy **Changsha, China**
Frontend Developer *Jul 2023 – Jul 2024*
- Participated in the web development of an AI chatbot and data visualization dashboard

Tencent **Shenzhen, China**
Frontend Developer Intern *May 2022 – Oct 2022*
- Participated in the app development of H5 live streaming event pages

Projects

Central Node 55
Stake and claim rewards for the Central Node 55 event *Nov 2024 – Apr 2025*
- Integrated the DApp using Next.js and Wagmi, developing core features including token staking and claim rewards
- Designed a Node.js script to analyze user staking behavior by querying transaction histories via the Polygon API

AI Medical Assistant
A large language model based AI medical assistant *Jul 2023 – Jul 2024*
- Developed the frontend from scratch using React and Vite, implementing real-time AI responses with SSE
- Managed streaming data flow by updating the React Query cache, ensuring a seamless, real-time user experience
- Engineered the deployment pipeline, reducing Docker image size by 40% through multi-stage builds

Data Visualization Dashboard
A series of data visualization projects *Jul 2023 – Jul 2024*
- Developed an interactive 3D environment using Blender and Three.js and used pre-baking to resolve rendering lag
- Built an interactive map module using ECharts, featuring custom markers and data annotations

Live Streaming Event Page
A live streaming event page for QQ Music and WeSing *May 2022 – Oct 2022*
- Developed a shared React component for the user ranking feature to eliminate code duplication across two apps
- Participated in the development of the internal npm package

Side Projects   **https://daviddong.me/projects**

My side projects   *Aug 2025 – Present*

- **Next Media** is a media management system (eg. Jellyfin, Emby, Plex) based on Next.js.
  1. Automatically parse the movie folder selected by the user, request the TMDB API to build the media library
  2. Implemented a dual-strategy video streaming engine, supporting Direct Play and HLS transcoding via FFmpeg.
- **Auto PDF** is a conversational PDF generation tool based on Large Language Models.
  1. Utilize the tool calling feature of Large Language Models to generate PDF based on the user's conversation.
- **98.ui** is a Windows 98 style UI component library based on shadcn/ui.
- **Comments** is a lightweight comment system based on React and Supabase.

Open Source Contributions

My open source contributions   *Jan 2022 – Present*

- React.dev: Fixed a CSS bug in the React documentation (**PR#6508**)
- Node.js: Refactor a test file in Node.js (**PR#54569**)

Education

Hong Kong Metropolitan University

Master, Computer Science   *Sep 2024 – Sep 2025*

- Research Training Fellowship of the Katie Shu Sui Pui Charitable Trust

Shenzhen University

Master, Material Science and Engineering   *Sep 2020 – Jun 2023*

Hunan University of Technology

Bachelor, Building Environment and Energy Engineering   *Sep 2016 – Jun 2020*

Publications

Signal, image and video processing

Video-based Point Cloud Compression Quality Enhancement Using Deep Learning Approach   *Sep 2025*

Carbon

Laser-induced rapid construction of Co/N-doped honeycomb-like carbon networks in zinc-air batteries   *Aug 2022*

Certificates

Qualification of Computer and Software Professional

Ministry of Human Resources and Social Security of the People's Republic of China   *May 2023*