

Yutong Han

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WORK EXPERIENCE

Tranalytic Technology Co., Ltd. (Subsidiary of Merit Interactive Co., Ltd.) 2022.10 - 2025.07

Front-End & Data Visualization Engineer

Hangzhou, Zhejiang

- Served as the **lead UI** and **product designer**, all smart traffic projects, defining visual systems and aesthetics
- Led the **front-end architecture design** and **technical stack selection** for the Smart Traffic Data Operations Platform
- Designed and built complex geospatial data visualizations, integrating and optimizing **MapLibre**, **ECharts**, and **AntV**
- Expert in **Vue3 Composition API**, **TypeScript**, **Vite**, and **native canvas**; specialized in high-performance visual components and front-end optimization

Caixin Media Company Ltd.

2021.03 - 2022.09

Data Journalist

Beijing

- Reported **data-driven economic stories** by analyzing large, multi-source datasets and policy contexts
- Created **charts**, **infographics**, and **responsive visualizations** to support news narratives
- Led **long-term multimedia projects** from planning to execution, managing storytelling and client collaboration.

PROJECT EXPERIENCE

Smart Holographic Intersection Dashboard

2025.02 - 2025.06

Web Design & Front-end Development, Geographic Data Visualization

Hangzhou

- Developed a **high-performance intersection traffic visualization** covering flow, speed, stops, wait rate, congestion index, headway, and alerts over time
- Used native canvas for custom rendering and integrated **WebAssembly** to optimize frame interpolation, enabling detailed vehicle-level analysis and **data-driven signal timing optimization**

A Day as a Traffic Signal Timer

2023.11 - 2023.12

Web Design & Development

Hangzhou

- A **solo-developed** mini-game simulating the role of a traffic signal technician. Players adjust light durations in real time to manage congestion and maximize vehicle throughput, with scores based on traffic flow
- Built with **Vue3**, **TypeScript**, and **native canvas**, completed with **performance optimizations**, **memory leak fixes**

What Winter Olympic Sports are You Suitable for

2021.09 - 2021.12

Web Design & Development, 2D Animation

Beijing

- A **solo-developed** Winter Olympics game where players discover their ideal sport and explore its science and educational content
- Built with **jQuery**, **Adobe After Effects**, and **Adobe Illustrator**

Where Did Your Daily Wastewater Go

2019.08 - 2019.11

Infographic Design, 3D Model

Miami, FL

- A self-designed project visualizing the journey of daily wastewater
- created using **Maya**, **Adobe Illustrator**, and **Flourish**

EDUCATION

University of Miami

2018.08 - 2020.12

MFA Interactive Media Master

Miami, United States

China University of Political Science and Law

2013.09 - 2017.06

Bachelor Social Sciences

China, Beijing