

## About Hua

I'm a full-stack developer with a strong focus on frontend, especially building interactive web applications and visualisation dashboards. I have experience with modern frontend frameworks such as React, Next.js, and TypeScript, as well as working with libraries such as Three.js and ECharts. On the backend side, I am skilled in developing RESTful APIs and data-driven apps using Java, Python, Node.js, and C# ASP.NET. I have also been working with containerised environments (Docker, Kubernetes), GitHub Actions, GitLab CI/CD pipelines, and cloud platforms such as AWS and Azure. Recently, I earned a Master of Applied Data Science, which has strengthened my skills in AI-powered and data-driven development. I am currently seeking a position where I can apply my skills to build web applications and continue growing in collaborative teams.

## Work Experiences

### Full Stack Engineer, Zespri International

November 2024 — February 2025

- Developed a web-based orchard sampling allocation system for real-time task scheduling across 500+ orchards in the Bay of Plenty.
- Built an interactive map and responsive page with React.js, Leaflet.js, Tailwindcss and hosted a standalone OpenRouteService for route optimisation.
- Implemented an ETL pipeline and RESTful API with Python/Flask and SQLite, processing orchard location and sampling data by using data science methods.
- Deployed microservices such as frontend, backend and third-party services on Microsoft Azure Cloud VM with an automated CI/CD pipeline.

### Frontend Engineer, Realibox, Guangzhou

August 2021 — February 2023

- Built and iterated across nearly 10 frontend projects, including a SaaS Hub portal, official website, and multiple internal tools.
- Led the internationalisation (i18n) of two major products, 3D Assets Hub and Realibox Studio Editor, supporting both Chinese and English users.
- Contributed to the iterative development of Realibox Studio Editor, including features like interactive model scenes, structure trees, and material management panels, as well as collaborative sharing modules.
- Led the frontend refactor of the Hub using Next.js, React 17, MobX, Less, and Vite.
- Integrated large-file upload features using Spark-md5 for chunked uploads to Alibaba Cloud OSS.
- Worked in an agile team, collaborating with PMs, QAs, BAs, and developers, served as Scrum Master and task owner to drive feature/user stories delivery.
- Experienced in microservices architecture and cloud-native deployments using GitLab CI/CD.
- Developed with a strong focus on 3D visualization, WebGL (Three.js), glTF model handling, and frontend performance optimisation.

## Links

Portfolio:

<https://www.hua.nz>

GitHub:

[github.com/aemooooon](https://github.com/aemooooon)

LinkedIn:

[www.linkedin.com/in/aemonwang](https://www.linkedin.com/in/aemonwang)

## Skills

React.js / Next.js

TypeScript / JavaScript

HTML5 / CSS3

Three.js / WebGL

AntV / AntD

Echarts / D3.js

Less / TailWindCSS

Responsive Web Design

Mobox / Redux

Webpack / Vite

Node.js / Java (Spring Boot)

Python / C# / ASP.NET Core

RESTful APIs / JWT

MySQL / MSSQL

PostgreSQL / Redis

Data Extraction / Modelling

Data Visualisation

ETL / Apache Airflow

AWS / Azure / Alibaba Cloud

GitHub Action / GitLab CICD

Docker / Kubernetes

Git / Linux / Ubuntu

Agile / Scrum / Kanban

Git / Version Control

Cross-team Collaboration

## Frontend Developer, Nuclear Stone Technology, Chongqing

August 2020 — July 2021

- Built and deployed HTML5-based micro-apps optimised for mobile, tablets, and desktop platforms, designed for sharing via WeChat Moments social channels.
- Developed interactive 3D panorama tours, enabling users to explore real estate models (buildings, landscapes, interiors) with 720° scene navigation and scene-to-scene transitions.
- Integrated scene annotations, hotspots, and galleries, with additional support for background music and embedded video playback.
- Implemented WeChat social sharing features by connecting to Tencent's authentication and API services via PHP-based JWT token management.

## Full Stack Engineer (Contract), Enshi Environmental Protection Agency, Enshi

February 2020 — July 2020

- Led the technical design and implementation of a real-time Air Quality Index (AQI) publishing system for a city of 5 million residents.
- Built ETL pipeline in backend and provided RESTful APIs using Spring Boot, MySQL, and Redis for real-time data ingestion and processing on schedule.
- Developed two separate SPAs: Public Portal using React, Apache Echarts, AntV data visualisation. Admin Portal using React and Antd for component building.
- Set up GitHub Actions for CI/CD pipelines; deployed applications to Aliyun Cloud ECS servers via SSH automation.
- Worked closely with a PM, BA, and another frontend developer; mentored junior staff on frontend development.

## Education

Master of Applied Data Science with Distinction, University of Canterbury, Christchurch

February 2024 — February 2025

Data mining, feature engineering, data bricks (Apache Spark), machine learning, deep learning, LLMs, data visualisation, data integration and ETL pipeline.

Bachelor of Information Technology with Distinction , Otago Polytechnic, Dunedin

July 2017 — June 2021

- The Excellence in the Bachelor of Information Technology in 2019
- The Academic Excellence & Best Programmer in 2021

## Volunteering

Event Coordinator, Chinese IT Association NZ

November 2023 — March 2025

Assisted in organizing monthly IT-related meetups, CITANZ member coffee chats, and actively participated in knowledge-sharing sessions.

## References

References available upon request