Yaohui (Tomie) Zhang

Senior Software Engineer | AI Application Specialist *(Product-Minded Engineer with UI/UX Background)*
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Professional Summary

Pioneer of China's Frontend Industry & Ex-Tencent Principal Engineer. One of the **first-generation frontend engineers in China** and co-founder of **W3Ctech**. I bring a rare blend of **Engineering, Product Design, and UI/UX** expertise. Formerly a R&D Director at Tencent, I have led "0 to 1" product innovations and managed high-scale systems serving **100M+ users**. My background includes working as a **professional UI Designer**, giving me a keen eye for detail and user experience. Currently mastering **Next.js and AI Agents**, I am looking for a hands-on role where I can leverage my full-stack skills and product intuition to build world-class applications.

Technical & Design Skills

- **Modern Frontend:** React, Next.js (App Router), TypeScript, Tailwind CSS, Vue.js.

- **AI & Backend:** Python (FastAPI), LangChain, OpenAI API, RAG, Node.js.

- **Product & Design: UI/UX Design**, **Figma/Sketch**, Wireframing, User Journey Mapping, **0-to-1 Product Lifecycle Management**.

- **Engineering:** Docker, CI/CD, Performance Optimization, System Design.

Featured Project

AI Agent Learning Platform (Full Stack Developer) | *https://imooc.1goto.ai* | *2023 – Present An online IDE and learning platform for AI Agent development.*

- **Product & Design:** Designed the entire UI/UX from scratch, focusing on a clean, developer-friendly interface similar to Replit.
- **Tech Stack:** Next.js, Python FastAPI, Docker, LangChain. Integrated **Judge0** for a secure code sandbox.

Professional Experience

Tencent | *China* | *2007 – 2023*

R&D Director / Product Director | *2015 – 2023*

- **Large-Scale SaaS:** Led the "One Mobile Travel" project. Bridged the gap between business goals and technical implementation, generating **10M+ RMB** revenue.
- **Engineering Culture:** As a **Tencent Frontend Committee Member**, I fostered a culture of self-driven learning and organized internal tech conferences.

Senior Tech Lead & Product Innovator | *2007 – 2015*

- **0-to-1 Product Innovation (Low-Code Platform):**
  - **"Jade Rabbit" (H5 Builder):** Led the product design and engineering of Tencent's first **No-Code Marketing Page Builder**.
  - **Impact:** Enabled non-technical operations staff to generate H5 marketing pages via drag-and-drop, significantly improving operational efficiency.
- **"Canvas" (Online Image Editor):**
  - **Role:** Project Lead & Main Product Designer.
  - **Innovation:** Built the first web-based image editing tool at Tencent, combining advanced DOM/Canvas manipulation with intuitive UI design.
- **High-Traffic Optimization (QQ.com & Mini Portal):**
  - **Performance:** Optimized QQ.com to achieve **<3s load time** nationwide.
  - **Architecture:** Solved rendering bottlenecks in the **Delphi-based** QQ Mini Portal (100M+ DAU) using a patent-pending **SSR** technique (IP positioning + XSLT).

Zhaopin.com | *China* | *2006 – 2007*

- **First Full-time Frontend Engineer:** Established frontend standards and led the site refactoring.

Community & Leadership

- **Co-founder of W3Ctech:** Founded China's largest frontend developer community.
- **Author:** *"AI Agent Development: From Zero to One"* & *"Ultimate Guide to HTML5 + CSS3 Experience Design"*.
- **Instructor:** Created the "AI Agents Practical Course" on Imooc.com (2000+ students).
- **Volunteer:** Mentor at **Code Club Aotearoa** & **Digital Seniors NZ**.

Education

- **Master of Software Engineering** (In Progress) | Yoobee College of Creative Innovation, NZ | *2025 – Present*
- **Master of Software Engineering** | Beihang University (Top 985), China | *2017 – 2020*
- **Bachelor of Education (Psychology)** | Baoji University of Arts and Sciences, China | *2002 – 2006*