

Weihsuan Wong

Senior Frontend / Full-Stack Product Engineer (AI-powered Platforms)

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SUMMARY

Senior Frontend / Full-Stack Engineer with 5+ years at Visa, specializing in **architecture-level design of customer-facing platforms and AI-powered developer tools**. Proven track record of building platforms adopted by 5,000+ internal users and customer-facing systems demoed to 2,000+ external customers at Visa flagship events.

Built **Visa Blitz Code**, an internal **AI prototyping platform** adopted by 5,000+ employees, generating 6,000+ prototypes and 10M+ lines of code within two months.

Co-Founder building an **AI-native platform** with **LLM pipelines, real-time streaming systems, and distributed architecture**.

WORK EXPERIENCE

Visa - Austin, TX

Staff SW Engineer - Front-End Developer

Jun 2026 - Present

Frontend development for the Customer and Developer Experience Tribe at Currencycloud, a Visa solution.

Senior Design Engineer

Feb 2025 - Jun 2026

- **Designed and implemented the end-to-end collaboration and permission system** for Visa Blitz Code (AI prototyping platform, 5,000+ employees, 10M+ lines generated), including a backend permission resolution engine aggregating multi-source access (direct / folder / nested shares) and a frontend "effective role" abstraction with progressive disclosure
- **Refactored Blitz Code's global state store into per-project isolated state maps**, eliminating an entire class of cross-project bugs (loading conflicts, state leakage) by fixing the root cause rather than patching symptoms
- **Architected the Tap NFC demo platform** used by **2,000+ external customers at Payments Forum 2025** (also featured at Stripe Sessions and Visa Investor Day); designed a 3-layer system (NFC integration / business logic / presentation) that enabled overnight production hotfixes without UI regressions during the live event ([Visa LinkedIn post](#))

Design Engineer

Aug 2021 - Feb 2025

- **Led a unified code integration system across Visa Payment Design System's React, Angular, Flutter, and CSS libraries**, powering every component page on design.visa.com; designed a priority-based multi-layer state sync (URL / session / client) to handle deep linking, persistence, and shareability without conflicts
- Drove a **60% increase in user satisfaction** for Tap to Phone accessibility through a week-long user testing session with people with disabilities, translating observed gaps into WCAG-compliant product changes ([LinkedIn post](#))
- Built scalable frontend for fintech pilot programs (e-HKD with HSBC, Hang Seng Bank) and contributed to the public launch of Visa's open-source Design System and **Led development of Visa [Digital Enablement](#) demo** through cross-functional collaboration
- **Enhanced Visa's Flutter component library** with enterprise interaction patterns (nested / indeterminate states) and accessibility improvements for real-world usability
- Designed a shared interaction service layer for Visa's Angular component library, replacing per-component logic with a single source of truth
- **Co-invented a patent** on accessibility and inclusive design for visually impaired users ([patent link](#))

ASUS - Taipei, Taiwan

Front-End Developer

Jul 2020 - Jun 2021

- Delivered features for [Armoury Crate](#) used by **millions of ROG & TUF users worldwide**
- Built and maintained **real-time device interfaces** including RGB lighting, touch panel, and key mapping systems
- Developed features for wireless keyboards (M601, Claymore II) including power management and real-time status monitoring

Advantech - Taipei, Taiwan

Front-End Intern

Jul 2019 - Aug 2019

- Developed a [water treatment management dashboard](#) using Grafana, AngularJS, and SVG.js for real-time industrial data visualization
- Presented the solution at the Taipei International Industrial Automation Exhibition 2019
- Received Advantech Summer Intern Excellence Award (2019) for leadership and process improvements

PROJECTS & ENTREPRENEURIAL EXPERIENCE

Youmi Travel

Co-Founder & Founding Engineer (AI/Full-Stack)

Jul 2024 - Apr 2026

- **Architected a planning-first AI pipeline** (extract → retrieve → summarize → plan → enrich → validate → stream) that separates reasoning from rendering, reducing LLM token cost while producing executable, ready-to-use itineraries instead of raw attraction lists

- Built a **real-time streaming system** using SSE, Redis, and BullMQ for progressive data delivery
- Designed a **multi-agent orchestration system** with intent classification and dynamic routing
- Integrated **Google Places and routing APIs** with caching, validation, and fallback mechanisms
- Developed a **cross-platform Flutter application** with real-time data streaming and map integration

[Legislator Election Official Website](#)

Hackathon (The F2E 5th)

Nov 2023

- Built a multilingual, accessible campaign platform using Next.js and TypeScript **for public information access**

[Taiwan Travel Guide](#), [Taiwan Bike Guide](#), [Taiwan Bus Guide](#)

Hackathon (The F2E 3rd)

Nov 2021

- Developed **map-based travel platforms** integrating transportation and POI data for trip planning
- Implemented **real-time geospatial features** including live bus tracking, bike stations, and route visualization using Mapbox

EDUCATION

Johns Hopkins University - Online Program

2026 - Present

Certificate Program in Applied Generative AI and Agentic AI

Stevens Institute of Technology - Hoboken, USA

2020

M.S. Computer Science

National Kaohsiung Normal University - Kaohsiung, TW

2016

B.S. Mathematics

CERTIFICATIONS

Google UX Design Certificate - Coursera

2024

Front-End & Back-End Website Development - Highline College

2018

SKILLS

Frontend: React, TypeScript, Next.js, Astro, React Query, Redux (Thunk, Saga), Zustand, Context API, HTML, CSS, SCSS, JavaScript, Angular, Google Maps Platform (Places, Routes), Mapbox

Architecture & UX: Design Systems, Accessibility (WCAG), Component Architecture, Responsive Design

Backend: Node.js, Express, NestJS, GraphQL, REST APIs, MongoDB, Redis, WebSockets, Firebase (Cloud Firestore, Hosting, Functions, Analytics)

AI & Product: LLM Orchestration, AI Model Integration (GPT, Gemini), Prompt Engineering, AI-driven Product Development

Mobile & Cross-Platform: React Native, Flutter, Kotlin