NG SZE HAO | TOMI

Senior Frontend Engineer | Frontend Architecture, Web3 & AI-Augmented Development

Remote (GMT+8) | +60 12 707 6525 | ngszehao@gmail.com | Portfolio | Github | LinkedIn

TECHNICAL SKILLS

Web3 / Blockchain
ethers.js, wagmi, viem, web3-react, Privy Wallet, Gnosis Safe

Frontend
React, Next.js, TypeScript, JavaScript, Tailwind CSS, TanStack Query, SWR, Zustand, Zod, HTML5, CSS3

Data & APIs & Backend
GraphQL, REST APIs, WebSockets, Headless CMS, KYC integration, IPFS, PostgreSQL, Prisma, Express.js

UI / Visualization
Figma, Material UI, TradingView Chart, Recharts, Nivo Chart, GSAP, Three.js

Testing & DevOps
Jest (unit and integration testing), Git, GitHub Actions, AWS

AI / Developer Tooling
AI workflow architecture, AI-assisted development, GitHub Copilot, LLM tools

LANGUAGES

English | Chinese | Malay

EDUCATION

Bachelor of Information Technology *(Minor in Data Science)*
Taylor's University | 2018 - 2021

South Australian Matriculation
Disted College | 2017

PROFESSIONAL SUMMARY

Senior Frontend Engineer with 6 years of experience building fintech, Web3, and developer-focused products, including 5 years in DeFi. Experienced in frontend architecture, real-time systems, SDK design, and AI-augmented development workflows. Proven track record delivering production software from concept to deployment, both within engineering teams and as a solo product builder, with hands-on expertise across React, TypeScript, Next.js, GraphQL, and modern full-stack architectures.

PROFESSIONAL EXPERIENCE

Bonfires - *Senior Frontend Engineer* | Mar 2026 - Present

- Introduced AI development guardrails by establishing coding standards and patterns for AI-integrated workflows, keeping AI-generated code consistent with team conventions and **reducing review churn across services.**
- Built Bonfires' onboarding and **Stripe billing flows, spanning checkout, recurring subscriptions and webhook-driven sync** to keep subscription state accurate, plus a usage and entitlements dashboard backed by Lago surfacing plan limits and metered consumption to users.

WAMM - *Founder and Engineer* | Jan 2026 - Present

- Architected and shipped a **full-stack personal finance platform solo**, owning everything from data modeling in Prisma and Postgres to auth-protected APIs with Zod validation and a strongly typed Next.js frontend.
- Engineered an **automated data pipeline that replaced manual entry**, integrating Gmail via OAuth to detect recurring subscriptions and wiring CoinGecko and Yahoo Finance feeds for real-time asset valuation with multi-currency conversion.
- Designed the analytics layer from the ground up, building **monthly net-worth snapshots and a rolling 12-month cash flow forecast**.

Solidant - *Senior Frontend Engineer* | Apr 2022 - Nov 2025

Kasu Finance - DeFi Lending Platform

- Diagnosed and resolved critical SDK performance bottleneck, **reducing user load times by ~75%** through independent root cause analysis.
- Architected and built the portfolio dashboard and lending workflows from the ground up, defining **data-fetching, caching**, and **state management patterns** for complex user flows.
- Integrated a **headless CMS with cached content requests**, enabling clients to update product copy without frontend deployments.
- Served as the sole frontend point of contact across **smart contract, subgraph, backend, and client teams** throughout delivery.
- Expanded **Material UI design system** to **30+ reusable components**, enforcing UI consistency and accelerating development velocity across the product.

Unlimited Leverage - DeFi Trading Platform

- Led implementation of a real-time DeFi trading interface, selecting and integrating **TradingView Chart** and **WebSocket** data streams to deliver sub-second market updates across multiple chains.
- Owned end-to-end delivery of a **QR code referral system**, spanning frontend and a supporting **Express.js microservice** to track referral attribution and drive user acquisition.

Spool V2 SDK

- Designed and architected a **public TypeScript SDK** from the ground up, defining the full **API surface** and object-oriented structure to simplify DeFi protocol integrations.
- Built abstraction layers over **GraphQL endpoints** and **blockchain data**, decoupling application logic from protocol complexity and ensuring data integrity.
- Published the SDK for external consumption, enabling **third-party projects to integrate** without requiring direct frontend support.

Faculty Group - *Frontend Engineer* | Mar 2021 - Mar 2022

- Architected risk-managed vaults and DAO governance frontend supporting **millions in TVL across multiple chains**
- Built responsive marketing sites with **live token price tracking** and interactive GSAP/Three.js animations.

ACHIEVEMENT

ETH Seoul Hackathon 2022 — *1st Place (Frontend Lead)*