

NG SZE HAO | TOMI

Senior Frontend Engineer | Web3, DeFi & Frontend Architecture

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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, 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

Prompt engineering, AI-assisted debugging, Claude Code, Codex, GitHub Copilot

LANGUAGES

English | Chinese | Malay

EDUCATION

Bachelor of Information

Technology (*Minor in Data Science*)

Taylor's University | 2018 - 2021

South Australian Matriculation

Distd College | 2017

PROFESSIONAL SUMMARY

Senior Frontend Engineer with 6 years of experience, 5 deeply embedded in Web3 and DeFi. Sole frontend owner across multiple live protocol products — from trading interfaces and lending platforms to a public-facing SDK — owning architecture, cross-team coordination, and end-to-end delivery. Proven track record shipping production DeFi applications with live TVL and active users, with hands-on depth in React, TypeScript, ethers.js, wagmi, and smart contract integration.

PROFESSIONAL EXPERIENCE

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, cache, 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.

Technologies : Next.js, TypeScript, GraphQL, wagmi, Compilot KYC, Privy Wallet, Nivo Chart, Directus

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.

Technologies : React, TypeScript, ethers.js, web3-react, WebSockets, TradingView Chart, Express.js

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.

Technologies : TypeScript, GraphQL, ethers.js, Jest

Faculty Group - Frontend Engineer | Mar 2021 - Mar 2022

Spool - Risk Managed Vaults & DAO Governance

- Architected the frontend for **risk-managed vaults** and **DAO governance**, supporting portfolios diversified across protocols with **millions in TVL**, deployed across multiple chains.
- Mentored a junior developer through code reviews and technical guidance, **raising code quality** and establishing stronger frontend practices within the team.

Technologies : React, GraphQL, ethers.js, Recharts

Liquidity Mining dApps & Brand Sites

- Defined reusable component patterns and a **templated frontend architecture** that enabled rapid deployment of **5+ client-branded platforms** for token swaps and staking.
- Built responsive marketing sites with **live token price tracking** and interactive animations using **GSAP** and **Three.js**.

Technologies : React, GraphQL, ethers.js, Recharts, GSAP, Three.js

ACHIEVEMENT

ETH Seoul Hackathon 2022 — 1st Place

Built the entire frontend for an **IPFS/Filecoin integration demo** within 4 days.