

Alexis Tanaka

Web3 Full Stack Engineer

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Summary

- **8+ years of expertise** in software engineering, specializing in both traditional **web2** and cutting-edge **web3** decentralized application (**dApp**) development.
- Proficient in defining, designing, and deploying user interface best practices for modular solutions across various system development life cycle methodologies including **Scrum**, **Waterfall**, and **Agile**.
- Experienced in enforcing **WCAG standards** to enhance **accessibility** and seamlessly translating **Figma** designs into responsive and inclusive **front-end** code.
- Skilled in **smart contract** and web3 dApp development, utilizing technologies such as **Solidity**, **Rust**, **Hardhat**, **Foundry**, **Truffle**, **Remix**, **Web3.js**, **Ethers.js**, and **WAGMI hooks**.
- Strong collaboration with designers, offering valuable insights to optimize both aesthetics and accessibility across traditional and blockchain-based applications.
- Proficient in front-end development with **JavaScript**, **jQuery**, **HTML**, and **CSS**, as well as integrating **Web3.js** and **Ethers.js** for seamless interaction with **Ethereum** blockchain networks.
- Real-time experience in building **Single Page Applications (SPAs)** and decentralized applications, ensuring smooth **user experiences** across both web2 and web3 environments.
- Leveraging extensive backend experience to architect and develop scalable **RESTful APIs** using **Node.js**, **Express.JS**, **Nest.JS**, and **Python**, and integrating with blockchain networks for data exchange and verification.
- Proficient in **SQL** queries for **PostgreSQL**, **MySQL**, **MongoDB**, and **GraphQL**.
- Experienced in leveraging **GraphQL**, **subgraph**, and **theGraph** to query blockchain data in real-time for **on-chain data visualization**, enabling dynamic and insightful analysis of blockchain transactions and activities.

Skills

JavaScript	Typescript	HTML	CSS
React.js	Angular.js	Vue.js	Node.js
Redux	Zustand	Next.js	Nuxt.js
Lodash	Jest	Jasmine	Cypress
Bootstrap	TailwindCSS	SASS/LESS	Material UI
GraphQL	PostgreSQL	MongoDB	Firebase
Express.js	Nest.JS	Python	Django
AWS	Vercel	GCP	Docker
Microservices	Serverless	Mixpanel	Sentry
Logrocket	Figma	Trello	Jira
Notion	Agile	Scrum	Kanban
Web3.js	Ethers.js	Wagmi	Web3Modal
Remix	Truffle	Hardhat	Foundry
Ethereum/EVM	Bitcoin	Solana	Subgraph
Rust	Solidity	Smart Contract	Move

Education

Bachelors in Computer Engineering |
Singapore Institute of Technology, Singapore

2015

Experience

- Jurat LLC, Remote, USA (<https://www.jurat.io/>) | 04/2023 – 04/2024
- Role: Senior Full Stack Blockchain Engineer
- Contributed to building a **layer-one blockchain** network based on **bitcoin core** and implemented a new **witness system** which ensures the control and monitoring of legal activities on-chain.
 - Developed a **Crypto wallet** on the chain with brand-new features like **brc20**, **ordinal** transfer and **ordinal swap** between peers.
- Masma, Remote, Canada (<https://www.masma.io/>) | 04/2022 – 10/2023
- Role: Frontend & Web3 integration consultant
- Led the development of the decentralized financial app with **Next.JS**, **MaterialUI**, **Prisma ORM**, **PostgreSQL** and **Vercel**.
 - Implemented intuitive **UI/UX** by bringing **Paypal** + **Coinbase** user experience which can easily onboard inexperienced web3 users.

- Developed **Smart Wallet** solution by leveraging **account abstraction** of **ERC-4337** to allow the users to sign up with an email and social identities, submit transactions without needing native currency for the gas price.
- Established a robust **CI/CD pipeline** using **Docker** for containerization, **CircleCI** for continuous integration, and **AWS S3** with Cloudfront for efficient content delivery.

Outdefine, Remote, USA (<https://www.outdefine.com/>)

| 06/ 2019 – 04/2022

Role: Founding Engineer

- Successfully developed the **MVP version** within a span of just 6 months, which has since garnered a following of **25,000+** users.
- Developed the web application utilizing **React, Redux, TypeScript, TailwindCSS, Node.js**, and the **Serverless** framework.
- Implemented various Web3 features, comprising a **talent rewarding system**, token-powered application submission, and a referral system that provides rewards to referrers.
- Employed **Wagmi, Web3Modal, EthersJS** and **Foundry** for seamless web3 integration to facilitate easy interactions with wallets, smart contracts, and transactions, ensuring a user-friendly and efficient decentralized experience.
- Implemented key features of the web app - user authentication, job posting & search, talent assessment and payroll processing.
- Designed and implemented a **scalable** and **efficient** architecture for the app on the **AWS** cloud, ensuring its capability to handle high volumes of traffic and user data securely.
- Conducted through **unit and integration testing** with **Jest, RTL** and **Cypress** to ensure the quality and reliability of the platform, utilized third-party tools such as **Sentry, Logrocket** for identifying and resolving bugs and issues before they impacted end-users.
- Performed **Mixpanel & Google Analytics** integration to get insights into user engagement metrics.

Peerplays, Hybrid, Canada (<https://www.peerplays.com/>)

| 03/ 2016 – 06/2019

Role: React & Blockchain Developer

- Leveraged **NextJS, React Native, Antd, React hooks, Redux, gRPC** and **TypeScript** to successfully deploy a decentralized exchange (**DEX**) on the Peerplays network, delivering both web and mobile versions.
- Participated in developing and documenting the infrastructure of **Peerplays** network - **Sidechain Operator Node(SON), DEX, SPK** and **NFT**.
- Utilized **GraphQL** and **TheGraph** to streamline and optimize data retrieval processes, ensuring real-time updates and providing users with dynamic and responsive views of on-chain cryptocurrency information.
- Engineered an **NFT marketplace** on the Ethereum network for marketing purposes using **Node.js, Express**, and **ExpressCart**, enhancing accessibility and facilitating transactions within the burgeoning NFT ecosystem.
- Proactively addressed **NPM vulnerabilities** and fine-tuned the performance of single-page applications, ensuring robust security measures and optimal user experiences.
- Established a comprehensive **GitLab CI/CD** pipeline with **Docker** integration, enhancing development efficiency and deployment processes. Additionally, elevated codebase quality through integration with **Sonar Cloud** and **Deepsource**, ensuring adherence to best practices and high standards of code quality.

Projects & Contributions

Onword AI: Stealth AI startup enhancing storytelling experience - <https://onword.studio>

Onword is designed to empower writers and visionary minds to create, collaborate, and share their stories with the world. Directed the development of an innovative AI-powered story visualization platform, crafting the MVP. Integrated Leonardo AI and OpenAI APIs to revolutionize video creation from text, and designed a WYSIWYG text editor with image-text matching functionalities, streamlining the video production process with embedded subtitles to enrich user storytelling.

Skills: **SvelteKit, Typescript, Serverless, Firebase, OAuth**

Cibolo AI: Alternative investment reporting tool powered by AI/ML - <https://ciboloai.com>

Implemented automation in a previously manual investment reporting process, cutting task duration from two days to one hour and saving clients hundreds of thousands of dollars annually, spearheaded product management efforts, including writing user stories, managing backlog priorities, and leading developer standups.

Skills: **NextJS, Typescript, ExpressJS, Web Scraping, CMS**

FueledOnBacon: CryptoTech Solutions - <https://fueledonbacon.com>

Fueled on Bacon comprises a team of seasoned blockchain experts(including me) deeply committed to facilitating the successful launch of Web3 projects across a spectrum of scales, encompassing both smaller NFT initiatives and extensive custom development endeavors.

Skills: **Vue3, NuxtJS, Vercel, Smart contract, NFT**