
XIAOYU A. GAO

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PROFILE

Staff Software Engineer with 8+ years of experience a passion for solving difficult technical problems, delivering delightful products, and leading high performing engineering teams. Expertise in full stack web & native applications with a front end lean, developer tooling, and NPM package development, with a focus on digital asset management, Web3 & accessibility. Proven track record of delivering performant, scalable, and secure software solutions in fast-paced, high-growth startup environments, as well as leading teams cross-functionally, fostering collaboration, and effectively bridging the gap between technical, product and business stakeholders to achieve strategic goals.

WORK EXPERIENCE

Ava Labs - *Staff Software Engineer*, Remote

February 2023 - Current

- Lead development for a suite of internal & external cross-platform digital asset management solutions that offers secure token custody across multiple blockchains.
- Mentor junior & senior engineers, lead engineering hiring for product engineering, and collaborate with senior leadership & cross-functional teams on strategic goals.
- Work with the internal finance team to manage digital assets, achieving 98% utilization of stakeable assets for revenue generation and over \$50M in tax savings, as well as develop and maintain internal tools to empower the finance team, resulting in a 2000% increase in transaction generation velocity.

Coral - *Co-Founder & Head of Engineering*, Remote

September 2021 - February 2023

- Led the engineering team in front-end, back-end, and smart contract development for a digital asset marketplace for music, collectibles, events, and experiences, as well as a crypto-based affiliate/referral marketing platform on the Avalanche C-Chain, which secured \$500K in seed investment from Avalaunch, Status, and Wave Financial.
- Worked cross-functionally with co-founders to translate business requirements into product specifications and engineering tasks, managed third-party design services for UI/UX, and coordinated project schedules, task assignments, and progress tracking to meet deliverable timelines
- Architected and implemented features such as low-friction social login sign-ups with non-custodial wallet creation, resulting in 83% of users signing up with social accounts, and NFT minting with credit cards via Stripe, leading to 91% of users purchasing NFTs with credit cards.

User1st - *Senior Full Stack Developer / Solutions Architect - R&D*, Remote

January 2020 - February 2023

- Led the development of in-code accessibility libraries for 8 NPM packages, including a core accessibility remediation library, web framework-specific packages for Vanilla JS, React, Angular, and Vue, and a micro-frontend-based static accessibility analysis toolbar using web components and Shadow DOM.
- Managed and automated versioning and publishing of NPM packages using TurboRepo and Lerna, reducing package deployment time by 75%, as well as developed JWT-based read/write access middleware for a private NPM registry using Verdaccio.
- Modernized development and build tooling, and parallelized processes across codebases, reducing development environment startup times by 95%, build times by 80%, and engineering onboarding time by 90% using TurboRepo, PNPM, Vite, Rollup, and ESBUILD.
- Liaised with U.S. customers to translate product requests into features, assist with platform integrations, and manually QA websites, mobile apps, & kiosks to ensure accessibility compliance, resulting in retention of client contracts worth over \$1M.

SKILLS

Languages:

HTML, CSS, TypeScript, JavaScript, Shell

Development Tools

Git, NPM, Yarn, PNPM, Vitest, Vite, Webpack, Rollup, esbuild, Lerna, Turborepo

Front End Tools & Technologies:

Figma, React, Tailwind CSS, Next.js, React Native, Nativewind, Expo, Legend State, RxJS, Tanstack Query, Storybook

Back End Technologies:

Node.js, Drizzle, PostgreSQL, Docker, Kubernetes

CI/CD & Infrastructure:

Github Actions, Cloudflare, AWS, Azure

Blockchain Technologies:

Wagmi, Ethers, Viem, WalletConnect, EVM (Ethereum & Avalanche C-Chain), Avalanche (X/P-Chain)

EDUCATION

The University of Virginia: School of Engineering and Applied Science (SEAS)

August 2016

- B.S. Computer Engineering & B.S. Electrical Engineering (Double Major), Rodman Scholar (Top 5% of Engineering School)