

# Andrew Aquino

Frontend Software Engineer

## Professional Experience

### Frontend Engineer @ Coder

Dec 2024 – Present

- Led full rebuild of [coder.com](#) to coincide with company rebrand. Built and maintained this marketing/docs site using Next.js, TypeScript, Tailwind CSS, shadcn/ui, Motion, GraphQL, DatoCMS, and Algolia, prioritizing accessible UI elements and animations.
- Coordinated requests between design/marketing/product teams.
- Introduced a Storybook design system and Vitest to test and document components.

### Freelance Software Engineer

Jan 2017 – Present

- Developed [Dicing an Onion, the Mathematically Optimal Way](#), an SVG/SvelteKit/D3.js interactive article for data visualization journal The Pudding. It became their most popular Instagram post (over 50K likes) less than 2 weeks after publishing.
- Led an initiative to add UI tests with Vitest and React Testing Library to 311 Data, a mature React project for Hack for LA.
- Implemented critical UI/UX improvements to a Vue executive reporting suite, including WCAG AA accessibility standards, to meet high-profile client needs on a tight timeline.

### Frontend Engineer @ Square

Jul 2021 – Sept 2023

- Achieved 70x faster dev server refresh rates for HTML emails viewed by millions of users by architecting and leading development on a rewrite of a legacy build system to use SvelteKit as a static site generator.
- Automated file uploads to vendor 60x faster than manual form entry by writing a Node.js command line script.
- Implemented responsive Svelte components and JavaScript animations for international marketing pages on [squareup.com](#).
- Led React pair programming interviews for frontend engineers.

### UI Engineer @ Chairish

Dec 2020 – Jun 2021

- Generated over \$11K in sales for a marketing campaign's launch day by extending a marquee component to display sitewide.
- Attained 36x faster builds for a Django/jQuery ecommerce site's frontend by leading an initiative to adopt Vite as a build tool.

### UX Engineer @ Tallan

Jul 2018 – Jun 2020

- Designed and developed web UI/UX from user flows to prototypes and React/Angular/TypeScript code, including a chatbot admin platform and a personal finance app, for clients such as Valassis Digital and Experian.
- Built custom reporting data visualizations with D3.js.

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Long Beach, CA

## Open Source Projects

### [Excalidraw](#)

Contributed feature and bugfix code to a React/TypeScript whiteboarding app with over 300K monthly users.

### [Creating a 10-Sided Die with React](#)

Wrote a blog post demonstrating 3D graphics programming with React, three.js, and react-three-fiber.

### [Algorithm Arena #6](#)

Won 1st place in a hackathon for a React app that formats code using CSS masks.

## Skills

### Programming Languages

ES6 JavaScript, TypeScript, HTML, CSS/Sass, GraphQL, Python, C, C++, SQL

### Frameworks & Libraries

React, Next.js, Svelte, Vue, Angular, Jest/Vitest, D3.js, three.js, Django, Tailwind CSS, Motion

### Deployment Platforms

Vercel, Netlify, AWS, Docker

### Design Tools

Figma, Photoshop, Illustrator

### Languages

Spanish (B1), Japanese (N5), Mandarin Chinese (HSK 1)

## Education

### Rensselaer Polytechnic Institute

BSc Computer Science, 2018

## Community

### Eagle Scout

Nov 2013

### Rondalla Club of Los Angeles

Aug 2023