# Adam Zane Alsabery

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## EXPERIENCE

**Tread,** Toronto, ON(Remote) — Tech Lead/*Staff Front End Engineer*

July 2024 - Present

- Employed virtualization techniques to scale scheduling tools to handle thousands of elements on a browser at a time.
- Introduced testing practices, and over 20 new lint rules to maintain high standards.
- Reduced average time to render by 30% within the first few weeks via bundling techniques.
- Refactored the top application layers to handle admin impersonation, user hydration, and websocket reconnection.
- Team lead for the Blue Barracudas. Running project planning, teaching standup norms, coordinating weekly updates, standardizing oncall practices, and facilitating retrospectives.

**Flock Freight,** Encinitas, CA(Remote) — Staff *Front End Platform Engineer*

October 2021 - March 2024

- Refactored monolithic application layout into 4 product experience layouts to facilitate scaling product teams to handle 3x the headcount.
- Created and managed Peacock, the engineering side of the Flock design system, to take the burden off of product engineers.
    - Examples include: lazy-loaded maps and routes, smart-stacking notifications, pre-configured page layouts, popovers, collapsible cards, and modals.
    - Created and managed Storybook/Chromatic infrastructure so that engineers could shop for components, and designers had a “source of truth” for what was actually available to them.
    - Consistently advocated for mobile-first development. Mentored both engineers and designers in frugal approaches to responsive design.
    - Articulated a flexible design update process for product managers and designers, to allow the design system to grow and adapt to the urgency of a startup.

## KEYWORDS

ThreeJs, WebGL, Vite, Javascript, Typescript, Node, Storybook, NextJs, Vis.gl, Deck.gl, FusionJs, Figma, SSR(server-side rendering), Koa, Redux, CSS, HTML, RTK Query, React Testing Library, Mui, Material, Emotion, Semgrep, Webpack, Java, Jira, Framer, Mapbox

- Built and maintained authentication pages to help prove viability of Peacock design system, and to maintain a high bar in critical flows.
    - All unauthenticated Flock pages were rebuilt in less than a week to facilitate an urgent rebrand. This work would later yield a 2023 Webby Award.
- Shepherd through the tooling landscape. Selected preferred tools, and orchestrated company-wide migration efforts.
    - Proved viability with proof-of-concept refactors in real product.
    - Spread context and built consensus via lunch-n-learns.
    - Built and maintained extensive best-practice documentation.
    - Leveraged tools like semgrep when possible to automate against legacy practices.
    - Built tools like Loon to give visual insight into migration status.
    - Selected tooling examples include: Figma, Material, Emotion, React Testing Library, and Storybook.
- “Supercharged” Storybook tooling. Redux state, route changes, and API calls could all be generated and mocked with a given set of recipes.
    - This allowed advanced front-end features to be developed independently of a backend, or even an internet connection.
- Provided and maintained extensive tooling to amplify productivity.
    - Introduced semgrep rules to protect against legacy practices.
    - Enforced architectural conventions via dependency-cruiser.
    - Created a reporting tool called "Loon" that enabled the company to visually track migration progress.
    - Introduced a CLI tool called "Chicken" to help generate code according to best practices.
- Spread knowledge and facilitated culture by tutoring designers and engineers, holding office hours, hosting lunch-n-learns, creating the "Web Guild", "Bob Ross Virtual Paint Night", and hackathons.
    - Web Guild meetings reached up to 50 attendees, all concerned with the topic of “Front End at Flock”.
    - Our peak hackathon had over 11 submissions and 70 participants.
- Performed extensive, and invasive refactor efforts that product teams couldn’t afford to fund themselves.  I take great pride in simplifying code, and jumping into what I call "the darkness". The absolutely ancient, terrible code that no one wants to touch for fear of both toil and regression.
    - Initial upgrade efforts brought us from React 15 to 17, and from Node 8 to 16.
    - Removal of unneeded barrel files reduced bundle size by 40% and time to render by 30%.
    - Switching map providers and loading mechanisms saved over $100k/year in operational budget.

**Uber,** San Francisco, CA(Remote) — *Front End Engineer II*

August 2019 - October 2021

- Rewrote a FusionJs/Koa rate-limiting middleware to support varying granularities with targeted error messages.
- Full ownership of the Support Center customer service feature. Wrote product requirements, participated in design of UX, defined backend API contract, helped find resourcing for backend work, implemented the front end, and led corresponding bug bash. Customer wait times dropped from 55 minutes to 10.
- Acted as “point” for two consecutive Bulk Upload initiatives, which replicated and abstracted our main Create Load flow into an excel sheet to better support power users.
- Acted as champion for business-impacting decisions like Internet Explorer support in the company’s shared components(only in the freight world will you see 15% of business from a deprecated browser).
- Rebuilt “bread and butter” pages like load-details or the generate-quote-calendar for simplicity and scaling. Doesn’t necessarily speak to quality, but line counts going from roughly 4,000 to 1,300 and 900 to 400.

**Amazon,** Seattle, WA — *Full Stack Engineer*

August 2014 - December 2018: Full Time

September 2013 - November 2013: Internship

- Internationalized a delivery workflow stack in anticipation of global expansion. Android native development, architecture scaling, onsite support, MySQL schema updates, and Java-implemented API refactors all facilitated the launch of Amazon’s delivery network in Mexico.
- Designed and implemented an offline authentication scheme for DORA, the last mile delivery application(Android).
- Migrated the endpoints, models, and validators of the delivery dispatcher application(BackboneJs) in a last-minute scaling effort for Black Friday.
- Authored reusable components(React Native) like intelligent lists and swipeable buttons for inter-team use in the Social org.
- Ran the Poll Chat initiative, which involved trialing the SSNAP React Native architecture's state-sharing capabilities, and contributing fixes to the bugs that they surfaced.
- Key "plumber" in the TwoCents migration. An accidentally successful Rails-based polling service was rewritten in Java according to modern Amazon standards and tooling. This service is currently used in Twitch live polls and can handle at least 3000 TPS.

## EDUCATION

**University of California, Santa Cruz** — *Bachelor of Sciences, Computer Science*

September 2009 - March 2014