ADRIAN LUK

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SUMMARY

Frontend engineer with eight years in React and TypeScript. Led a WCAG 2.1 AA accessibility overhaul across 248 components at Control D and built the automated Cypress suite that keeps it passing. Earlier, designed the schema, REST API and React front end of a Laravel application used by roughly 2,000 field employees. Also work server-side: PHP and Laravel, Node and NestJS, SSO across four identity providers, and Stripe and HubSpot integrations.

SKILLS

Languages: TypeScript, JavaScript, PHP, HTML5, CSS3/SCSS, SQL, GraphQL

Frontend: React, Next.js, Gatsby, Redux Toolkit, RTK Query, Apollo Client, Emotion, Tailwind, Radix UI, GSAP, i18next

Backend: Node.js, NestJS, Laravel, REST API design, GraphQL federation, MySQL, OAuth/OIDC, SAML SSO, Stripe, HubSpot API

Accessibility & Testing: WCAG 2.1 AA, axe DevTools, cypress-axe, VoiceOver, Cypress, Jest, React Testing Library

Tooling & Infrastructure: Git, GitHub Actions, Bitbucket Pipelines, Vite, webpack, Nx, Vercel, Netlify, AWS, Firebase, Figma

EXPERIENCE

Senior Software Engineer, Control D (Windscribe) Mar 2024 - Apr 2026

DNS security and content filtering platform for consumer, business and MSP customers

- Led an accessibility overhaul of the customer dashboard, organization portal and marketing site, remediating 248 React components against an external WCAG 2.1 AA audit on a compliance deadline.
- Built the cypress-axe suite that keeps it passing: WCAG 2.1 A/AA assertions across 96 routes, each run in desktop and mobile at both light and dark themes, with network calls stubbed so results stay deterministic.
- Fixed focus management in the shared primitives instead of page by page. Modal and tray dialogs moved onto react-focus-lock, popups regained focus restoration, and colour contrast moved into the theme palette for both modes.
- Added keyboard navigation to card, row and filter components that had been mouse-only.
- Implemented SSO for four identity providers over 18 months, covering internal admins, customer organizations and personal users: Okta with group-to-role mapping, Google, Microsoft Entra ID with per-tenant OIDC discovery and PKCE, and Tailscale, all behind one entry point.
- Owned the HubSpot integration in production for 18 months. A PHP client created contacts, companies, deals, invoices and line items, driven by Stripe webhooks for payment, subscription and payment-method events.
- Built org-level scheduled reporting: React and RTK Query on the front, a PHP controller and cron behind it, branded PDFs out the other end.

Full Stack Developer, Life House Oct 2022 - Feb 2024

Revenue management SaaS for independent hotels

- Primary frontend engineer on the guest-facing booking widget, an embeddable React and TypeScript booking flow hotels dropped onto their own sites with one script tag.
- Scoped every generated CSS rule to the widget container with a custom Emotion stylis plugin, avoiding both Shadow DOM and an iframe. Wrote the html-tag and keyframe exclusions that global and animation rules needed to survive it.
- Retrofitted five languages and multi-currency support onto a UI that had already shipped: 88 files, 22 i18next namespaces, served from Contentful over GraphQL.
- Built bulk rate editing for hotel operators. Date-range and weekday filters apply price overrides in one mutation, and the override editor derives per-night and percentage inputs from each other.
- Top contributor on the revenue and marketing dashboards, covering occupancy, ADR, RevPAR, competitor rates and booking pace over an Apollo Federation GraphQL gateway.
- Contributed to a published Radix design system shared by the admin and guest apps, and built a NestJS GraphQL subgraph over the Mews and Cloudbeds PMS APIs.

Frontend Engineer, Studio — Mar 2022 - Aug 2022

Brand and digital design agency

- Sole developer on the agency's marketing site after picking up a stalled prototype. Rebuilt the landing page, navigation and case-study system over roughly 170 pull requests, writing about 70% of the shipped source.
- Built the scroll engine driving the site: four coordinated GSAP ScrollTriggers per section for active state, page-chrome theming, paint gating on offscreen content and pinned stacked-section reveals, with offsets resolved per section and per breakpoint and full teardown on resize.
- Rendered route transitions on canvas. GSAP timelines paint staggered DPR-scaled ripples out from the click point, and navigation fires from the animation's completion callback.
- Wrote the deploy pipeline: three GitHub Actions workflows to Firebase Hosting production and dev, plus an ephemeral preview channel per pull request.

Full Stack Web Developer, Brandish Agency — Mar 2020 - Mar 2022

Digital agency; WordPress, headless and custom client builds

- Led development on the agency's main client accounts. Majority author on six of nine repositories, sole author on four, and primary merge integrator on every multi-developer project.
- Built a college website on a Timber/Twig WordPress theme with 8 custom post types and 67 ACF field groups, including an embedded React SPA program catalogue with Context API, custom hooks, react-query and React Testing Library coverage.
- Built the agency's own site headless: a Gatsby front end sourcing WordPress over WPGraphQL, on Netlify, with a serverless function handling forms.
- Wrote the CI pipeline for the largest client project. Builds fire only when source actually changes, with three-tier dependency caching, a two-stage React-then-theme build and deploy webhooks across four environments.
- Standardized a reusable theme build scaffold and a shared Elementor widget plugin across client projects. Mentored a junior developer.

Full Stack Developer, Elite Digital Agency — May 2018 - Mar 2020

Digital agency; enterprise applications and client web builds

- Architected the data model, REST API and React front end of an internal retail-execution contest platform for PepsiCo Canada. Roughly 2,000 field employees enrolled per contest, against a provisioned user base of 11,750.
- Designed the domain schema behind it, mapping a six-level national field sales hierarchy across nine roles with per-contest role assignment, and owned the REST API layer the whole front end runs on.
- Replaced the application's Vue front end with React and built the architecture that followed: eleven contexts, custom hooks, dynamic-import code splitting, an error boundary and skeleton loading.
- Built the submission and moderation flow: multi-photo upload with an in-browser image editor, a review queue, conversion-rate leaderboards and client-rendered PDF report cards, bilingual English and French.
- Tracked down production performance problems: a memory leak in a gallery endpoint over roughly 85,000 records, a missing-index migration on hot tables, and a query that ran on every authenticated request.
- Built a bilingual dual-market WordPress theme serving Canadian and US sites from one codebase with runtime country detection and per-market taxonomies.

PROJECTS

Juice Bros, juicebrospickleball.com — 2026

- Brand platform for a pickleball podcast, built in Next.js and TypeScript. Episode archive, newsletter integration and a set of free tools for players.

EDUCATION

Seneca College Webmaster Content Site Design Certificate — 2017

Seneca College Computer Engineering Technology & Marketing — 2014 - 2016

University of Ottawa Electrical Engineering — 2012 - 2014