

Adam Tolley Full Stack Web Architect

Web Platform Practitioner

My career comprises over a decade of modern web development with HTML, CSS, and JavaScript.

As web development has evolved from statically served pages, to client-heavy SPAs, to full-stack hybrid client/server applications I have continuously broadened and deepened my skill set.

A problem solver first, my best work has been in creating solutions that boost developer effectiveness, code reusability, and cross department collaboration.

Skills and Experience Across the Entire Stack

- Next.js, React, Web Components, Lit, Stencil.js, 11ty, Astro
- JavaScript, TypeScript, C#, Python, shell scripting, functional programming
- SQL, GraphQL, REST APIs, JSON, sanity.io, Contentful, headless CMS
- HTML, CSS, SCSS, SVG, Styled Components, Emotion, CSS-in-JS, vanilla extract
- node.js, JAM stack, SSR, SSG, island architecture, SPA, PWA, MVC, MV VM, MV*
- AWS, (Lambda, S3, ec2, Elastic Beanstalk, Amplify, Cognito) Netlify, microservices
- git, SCM, Agile methodologies, DX, code review, Scrum, best practices, mentorship
- unit and integration testing, automation, Jest, Mocha, TDD, Puppeteer, Playwright
- design systems, design tokens, accessibility, a11y, WCAG, UX/UI, user studies
- naming things, cache invalidation

Recent Accomplishments

- Championed greater collaboration between Design and Development teams at by establishing common practices, terminology and workflows between departments
- Designed and lead development of our in-house hybrid SSG/SSR JAM stack web metaframework which:
 - Enables familiar page-building paradigms within a more flexible structured content CMS (sanity.io)
 - Augments common CSS-in-JS frameworks with a set of composable utility functions
 - Maps deeply nested backend data to explicit TypeScript objects, using recursive type generics
- Created data-driven react/redux tooling capable of generating complex, dynamic web forms for manipulating deeply nested data defined via JSON schemas

Employment History

HZ Design Group	Principal Architect	Apr 2022 - May 2023
HZ Design Group	Senior Software Engineer	Feb 2020 - Apr 2022
Frederick Mutual Insurance	Senior Software Engineer	May 2019 - Jan 2020
Social Security Administration	Developer (<i>contract</i>)	Jan 2019 - May 2019
DivvyCloud	Senior Software Engineer (<i>contract</i>)	Apr 2018 - Oct 2018
Washington Post	Senior Software Engineer (<i>contract</i>)	Jan 2017 - Jan 2018
Independent Contractor	Instructor and Consultant	Jan 2016 - Jan 2017
Decisive Communications	Senior Software Engineer	Mar 2015 - Jan 2016
NGP VAN	Software Engineer	Jan 2014 - Feb 2015
Marriott	Front End Developer (<i>contract</i>)	Feb 2013 - Dec 2013
Unison Inc	Front End Developer (<i>contract</i>)	Nov 2012 - Feb 2013

Education

- BS in Computer Science *from* Hood College *in* 2008
- AS in Computer Science *from* Frederick Community College *in* 2004
- Certificates: ScrumMaster (CSM) *in* 2013, MCSE, A+, and Net+ *in* 2000