tjfroll.github.io ▪ tjfroll@gmail.com ▪ +16072809288

TIM FROEHLICH

Developer and designer with a focus on complex UX problem-solving.
I want to close the gap between thought and creation.

Skills

Development: fluent in HTML, CSS, React, TypeScript / JavaScript, favoring functional reactive approaches; familiar with SVG, Canvas, d3, PHP, Java, Python, and Node.js

UI/UX: comfortable drafting mockups and wireframes, designing workflows, performing user and stakeholder interviews, and building component styleguides

Work

STAFF SOFTWARE ENGINEER – *Maven Clinic*   *Mar 2021–**

- Front-end architect for healthcare platform supporting women's health, fertility, and materinity health care services in over twenty countries
- Established platform team for front-end engineering, supporting development experience and release process for 10+ product teams, including 5 public-facing React/Node apps and 15 internal/admin apps (500k+ LOC total)
- Built custom, dynamic CI/CD pipeline generator for Gitlab, deploying to production up to 50 times daily
- Implemented localization (l10n) and internationalization (i18n) support and processes for all public-facing applications, supporting 4 languages
- Migrated front-end repository to Nx-based monorepo with private package registry, serving 50+ reusable packages, including reusable component styleguide
- Design technical interview process for staff-level engineering candidates

LEAD SOFTWARE ENGINEER – *Vesta Healthcare / Hometeam*   *Jun 2018–Dec 2020*

- Front-end architect for healthcare platform containing one React web app and two React Native mobile apps, supporting quality care for seniors living at home
- Created reusable component styleguide across application suite, with a focus on simplicity for non-technical users and accessibility for elderly users
- Converted web application codebase (~60k lines) from JavaScript to TypeScript
- Introduced unit testing with Jest, Enzyme, and React Testing Library
- Supervised QA team: hired and trained analysts, defined testing and release processes, guided development of automated end-to-end tests in Cypress
- Established agile processes and rituals; managed and configured Jira; delivered weekly release reports and quarterly velocity retrospectives

SENIOR FRONTEND DEVELOPER – *Doctor Evidence* *Apr 2014–May 2018*

- UI lead for clinical research meta-analysis platform containing multiple web apps
- Built all reusable frontend components and styleguide for application suite
- Architected and implemented new front-end data model for clinical research trials, improving app load times by 75% and reducing data payloads by 90%
- Converted entire codebase (~100k lines) from CoffeeScript to TypeScript
- Created interactive data visualizations using SVG and d3 libraries
- Drafted mockups and workflow diagrams for all major feature requests
- Supervised QA team: hired and trained new analysts, implemented project management tooling (Zenhub, Jira) and release management processes
- Hired as a Junior Frontend Developer; promoted to Frontend Developer after 1 year; promoted to Senior Frontend Developer after 2 years

CREATIVE DEVELOPER – *AQ Tech Group* *Feb 2013–Aug 2013*

- Designed and implemented frontend for a public-facing e-commerce website using HTML, CSS, JavaScript, and jQuery
- Coordinated with backend developer to build inventory, shopping cart, and checkout system using PHP and MySQL
- Constructed product selection interface, wholesale portal for corporate customers, and HR purchasing management system using PHP and jQuery
- Established and managed AdWords campaigns; photographed and edited product catalogue using Photoshop; designed sales brochures using Illustrator

DATA ASSISTANT – *Ecological Society of America* *Apr 2010–Nov 2012*

- Independently developed an automated PHP application to manage a large collection of online archives for published research, greatly decreasing team workload (esapubs.org/archive)
- Implemented SQL Server 2008 into existing server environment. Used MySQL to construct and maintain accompanying database for archive applications
- Deployed site-wide usage tracking. Leveraged traffic data to propose structural and aesthetic upgrades, then implemented them in HTML, CSS, and JavaScript
- Assisted team members as necessary by proofreading and copy editing publication material, answering author queries, and providing technical support