JOHN RICHTER
Full Stack Developer and UI/UX Designer
johndavidrichter@gmail.com
JohnRichter.io

CORE SKILLS
Typescript, Javascript, React, Next.js, Fastify, Postgres, Python, Flask, OpenAPI, AWS, Angular, Vite, React Testing Library, UI/UX Design, LaunchDarkly, Chromatic, Nest.js/Node/Express, Server Side Rendering, Static Site Generation

EDUCATION
University of Texas at Austin, 2012, Computer Science GPA 3.5
Washington University in St. Louis, BA 2010, Political Science & Economics GPA 3.6

ADDITIONAL SKILLS
Design: Figma, Photoshop, Illustrator, Adobe Experience Design, Sketch, InvisionApp, Omnigraffle
AWS: Lambdas, S3, ECS, Route 53, API Gateway, Cognito, Step Functions, …
GCP: Firebase, Firestore, Cloud Storage, Hosting, …
Content Management Systems: NationBuilder, Drupal, Ghost, Wordpress
User Interface/User Experience Skills: Prototyping, Iconography, SVG and pixel-based design, Responsive Design, Fonts & Typography, UI/UX theory, Usability Testing, A/B testing, Analytics, CSS Sprites
Interactive Data Visualization: HighCharts, D3.js incl maps, GeoJSON, TopoJSON, Charts.js
Mobile: Progressive Web Apps, Titanium, Android
Backend Infrastructure/CI: Google Cloud, Google Cloud Run, Firebase, Jenkins, Amazon Web Services, AWS Amplify
Testing: Karma, Mocha, Chai, Selenium, Playwright

EXPERIENCE
Freelance Software Engineer
Jan 2024 – Present, New York
- On contract with HCA Healthcare (via A.team): Developing rate sheet optimization platform with data scientists, enabling contract negotiators to build data-driven proposals using facility-specific performance metrics and service line analytics for the Fortune 50 healthcare provider
- Developed full-stack, mobile-ready application using Next.js and Supabase
- Implemented full-text search engine using Meilisearch to enable rich, performant search across multiple data types
- Built automated data pipeline using PostgreSQL functions and PostgREST HTTP to sync search indices and maintain data integrity
- Technologies Used: Next.js, React.js, Vite, Python, Redis, Websockets, FastAPI, PostgreSQL, Supabase, Kysely, Meilisearch, PostgREST, MaterialUI, Tailwind

Lead Front End Engineer, Full Stack Developer
Coast, June 2022 – Jan 2024, New York
- Architected OpenAPI schema-driven software architecture that increased developer productivity by 30% through auto-generated endpoints, validation, typing, and RTK Query hooks. Gave presentation.
- Led development of component library, shared across four teams. Developed documentation, gave presentations on approach.
- Organized and led bi-weekly Frontend Guild, cohering frontend strategy across the engineering org.
- Introduced and maintained several service integrations, including DataDog RUM, LaunchDarkly, and Chromatic. Developed CI integration using GitHub Actions.
- Led bootstrapping of Growth team, worked with partners to increase Growth by 30%+, using lessons from Better.com
- Technologies Used: React, Redux, RTK-Query, MSW, Jest, React Testing Library, Java, Cucumber, Python, Flask

Team Lead/Senior Software Engineer
Better.com, Growth Team, December 2020 – May 2022, New York
- Led cross-team frontend performance overhaul under CEO direction, delivering in under one month. Decreased bundle size by 60%, reduced 90th percentile load time from 6s to 2s, and improved first contentful paint metrics. Received $25k performance raise.
- Architected frontend for streamlined new preapproval UX, resulting in a 15% increase in preapproval rate for refinances (equivalent to several $billions increase in revenue).
- Led frontend for CEO-directed projects including "Call Me Now" feature, improving conversion rates across multiple funnel stages.
- Co-organized rebranding effort for Better.com's new brand identity, including assisting teams that needed engineering contributions and guidance.
- Technologies Used: Next.js, React, Jest, React Testing Library, LaunchDarkly, Rollbar, DataDog, Server Side Rendering

Freelance Software Engineer
February 2020 – Dec 2020, New York
- **Sidewalk Labs (Alphabet Company):** Architected frontend for Sidewalk Lab's Mesa application, which monitors and optimizes commercial building energy costs, manages controls. *Technologies Used: React, Next.js, Chakra, Google Cloud, NX Monorepo, Vercel*

- **Aspen Institute – "Weaving Community During Crisis"**: Developed and designed website, interactive map, discussion board, events dashboard, and tools with Aspen Inst. + 300 partners. Mentioned by David Brooks in New York Times. *Technologies Used: Angular, Docker, Node, Server Side Rendering, Static Site Generation, Firebase, Firestore (NoSQL DB), Google Cloud Run, Google Cloud Compute Engine*
- Other clients include Leonardo DiCaprio Foundation, National Geographic, Years of Living Dangerously.

Team Lead/Senior Frontend Engineer and Designer
Millennium Management, February 2019 – January 2020, New York
- Designed and architected UI/UX/data visualizations, dashboard, Omnigraffle-like mapping tool to help portfolio managers and analysts assess equities, take action at the 4th largest hedge fund in the world
- Built dashboard for managing ideas, screening coverage, and classifying equities
- Designed app & style guide using Figma, implemented component library
- Developed continuous integration pipeline, including scripts for coding, style, and git naming standards
- *Technologies Used: Angular 8, Typescript, Ag-Grid, Figma, Javascript, SVG, HighCharts, more…*

User Interface Engineer and Designer
Oportun, June 2016 – January 2019, Redwood City, CA (Remote – based in Portland,OR)
- Developed and maintained new payments infrastructure using Angular.js and REST services
- Designed UI and implemented expanded customer search functionality
- Redesigned and developed UI components within payments, collections, and origination
- *Technologies Used: Javascript, Angular.js, Jenkins, Grunt, Git, Bower, Node, Photoshop, Illustrator, SCSS, SQL, MySQL Workbench, Karma, Mocha, Chai, Emacs, VSCode, Slack, Outlook, Jira, Gradle, Groovy, Git...*

User Experience Engineer and Designer
Kavi Corporation, June 2014 – June 2016, Portland, OR
- Designed and engineered marquee customer-facing activity feed that boosted customer engagement, resulting in increased sales
- Advocated and assisted transition from Backbone-based app to Typescript/Angular.js based app
- Designed and developed D3.js based dashboard to make data more accessible/actionable
- *Technologies Used: Typescript, Javascript, Angular.js, Grunt, Git, Bower, TSD, Node, Photoshop, Illustrator, Backbone.js, PHP, Python, SCSS, Mustache, Smarty, SQL, Karma, Crucible, Jira ...*
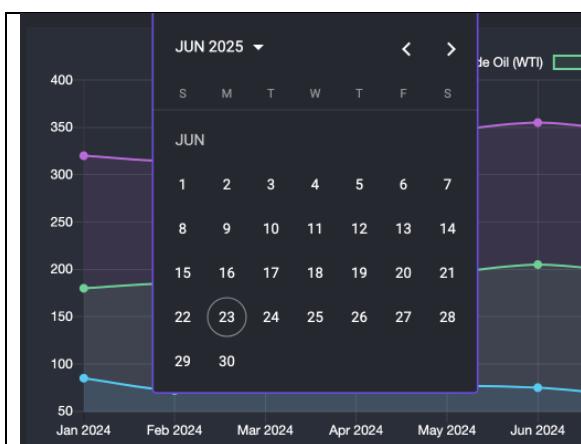
Consultant Developer & Designer
July 2012 – June 2014
- **Scott White Healthcare –** Designed iOS and Drupal website as UX Designer. See screenshots on johnrichter.io
- **Minnow Software** - Visualized allergy data using d3.js and leaflet
- **Praxsys/Vitasio** - Designed the user interface of iPhone applications and website while in college
- **Red Sequoia** - Designed and developed several Drupal websites
- **Incendia Media** – Designed and developed Drupal sites, Titanium-based mobile app

Check out my interactive portfolio at https://johnrichter.io!

Millennium: Designed and engineered intuitive dashboards for portfolio managers and equity analysts

Kavi: Designed and engineered gorgeous activity feed for Kavi collaboration platform used by standards organizations like USB and Wifi.