Ethan Resnick
Senior Full-Stack Engineer
Based in New York City

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Overview

Full-Stack Engineer with 10 Years' Experience & Commitment to Social Justice
I have deep expertise in web technologies, backend services, and engineering best practices. With my full-stack perspective, and long-ago roles as UX designer, I see the big picture when architecting a system and work effectively with colleagues of all sorts.

I've built products aiding journalists and their institutions, and a product helping recently-arrested individuals get better legal help, reflecting my deep wish to improve how government works and nudge it toward more-just outcomes.

Software Engineering Skills Summary

General
JavaScript/TypeScript/Node.js expert, using OO & functional paradigms.

Polyglot. Exposure to Haskell, Python, Clojure, Prolog, Scala, Java patterns, etc.

Expert on testing strategies & authoring for testability, including for the frontend.

Backend
Deep expertise in HTTP/HTTP2, REST, API design, hypermedia. Some GraphQL.

Very skilled with PostgreSQL, Mongo, Redis, Kafka, data modeling. Some RDF.

Web Frontend/UI
Steeped in React's ecosystem.

CSS architecture expert, using ideas from BEM/CSS modules, atomic CSS.

Broad knowledge of the web platform (browser/DOM APIs, web security and performance concerns, etc).

Some experience with accessibility (WCAG, ARIA), SVG, animation, d3.

Dev Ops/Workflow
Familiar with Git, AWS, CI/CD, Docker, Heroku, etc.

Select Clients & Roles
I've been an independent developer–consultant on 20+ projects. Here are a few.

Senior Backend Engineer *at Callaway Cloud Consulting (Contract)* Aug 2018 – Present
On an agile team of 25, I'm architecting and implementing backend services – using Kafa-powered, event-driven architectures – as well as data syncing systems that handle hundreds of thousands of records as fast as sources can send them.

To support automated code quality control, wrote a linter to parse and analyze our Pl/PgSQL triggers for a large class of bugs. Created and implemented a generalization of HTTP's caching model, backed by Redis, to meet tough performance requirements.

Software Development Lead & Mentor *at Astorian (Contract)* Jan – Jun 2018
Mentored the development team at this venture-backed startup on how to architect large-scale React/Redux apps with continuous deployment. Led early-stage, full-stack development work on their second product.

Senior Full-Stack Engineer *at Atlantic Media (Contract)* Oct 2017 – Jan 2018
Independently built an internal web app enabling the sales team to better convert potential ad buyers and sustain Quartz' journalism. (Node + React.) Codesigned its UI.

Select Clients & Roles
(Continued)

Engineering Fellow *at Robin Hood Foundation/Blue Ridge Labs* Jun – Nov 2016
As fellow at NYC's largest poverty-fighting organization, researched, and prototyped tech solutions to, poorer Americans' inability to access quality legal services.

Teamed up to create Good Call, an emergency hotline that rapidly connects arrested individuals, their family members, and a public defender. I built and ran dev-ops for the hotline's backend, including integrating it with existing public defender systems and building/using fail-safes (e.g., multiple AWS zones) to maximize its availability.

Web Application Developer *at The Overview Project (Contract)* Fall 2014, Summer 2015
Designed and implemented Overview's primary data visualization – an interactive wordcloud, in d3 – and contributed to its advanced search tools. (Overview enables journalists to visualize and search large document sets for their relevant information.)

Leadership Experience

Specification Editor *for JSON:API* June 2015 – Jan 2019
Served as editor for this open-source specification to standardize JSON-based HTTP APIs, with Yehuda Katz and Dan Gebhart. Author of a Node.js server implementation.

President *of Tech@NYU* Fall 2014 – Spring 2015
Led 30-person team that developed, financed & hosted 100+ events for 5,000 members. (Tech@NYU is New York's largest student-run tech/entrepreneurship group.)

Launched successful programs to build group's infrastructure (an API & intranet), improve diversity, expand democratic decisionmaking, bring board closer together.

Earlier Journalism & Civil Society Tech/UX Roles

New York Times (2013) Prototyped design solutions to highlight the Times' multi-part, investigative series & better relate newly-reported stories to the existing coverage.

Huffington Post (2012) Redesigned a large system to encourage more, and higher-quality, submissions from invited contributors—a cheap source of significant ad revenue.

Report LA (2010) Built custom CMS supporting sophisticated story ranking and syndication for this independent paper. Designed and built site's frontend.

PEN Center USA (2008) Implemented an email newsletter system (pre Mailchimp) for this global non-profit that defends freedom of speech & promotes the written word.

Education

New York Univerity, Gallatin School of Individualized Study 2011 – 2015
BA with honors (3.8 GPA). Created own major with a focus on Political Science, Philosophy, and Math. Electives in conflict resolution and product design.

Program on Negotiation at Harvard University Spring 2017
Learned key theories of bargaining, dispute resolution system design, and mediation over two months. Honed my skills through exercises led by professional mediators.