

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. As a former UX designer (at New York Times, HuffPost, etc.), I can also bridge the designer-engineer language gap and contribute good, on-the-fly design decisions in fast-paced environments.

I've shipped products aiding journalists and their institutions, and a product helping recently-arrested individuals get better legal help. I care deeply about improving how government/policy works, and nudging it toward more-just, progressive outcomes.

Software Engineering Skills Summary

General

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

Some experience with or exposure to Clojure, Prolog, Python, Scala, PHP.

Expert on testing strategies and writing testable code, including for the frontend.

Backend

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

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

Web Frontend & UI

Steeped in the React ecosystem.

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

Knowledgeable on DOM APIs, browser behavior, performance.

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

Sketch, Photoshop, InDesign.

Dev Ops/Workflow

Git, AWS, CircleCI, 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
Architecting and implementing data syncing systems, developing backend APIs, and modeling data for a client aggregating many sources of information. Have scaled these systems to handle hundreds of thousands of records as fast as the source can send them.

Wrote a linter to parse and analyze our PL/PgSQL triggers for a large class of bugs.

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. Codesigned its UI.

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

Select Clients & Roles
(Continued)

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—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 (2009 – 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.

**Teaching, Negotiation
& Conflict Resolution**

Crossing the Digital Divide & The Fortune Society Teacher / 2008 – 2010, Fall 2012
200+ hours of in-classroom teaching experience. Taught computer, public speaking, and GED prep skills to students who were formerly-incarcerated or in drug recovery.

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

Education

New York University, 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.

Other Software Skills

Though I have mainly worked in Javascript, I have experience with tools and ideas from many other ecosystems, e.g.: web frameworks (Flask, Symfony), CMSs, databases (Neo4j), and software design patterns (property-based testing, macros, OO design patterns, effects as data, type systems, etc). I'm always eager to learn something new!