

## Ethan Resnick

Senior Full-Stack Engineer

Based in New York City

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### Overview

#### **An Independent Full-Stack Engineer with 10 Years' Experience.**

With deep expertise in web technologies and engineering best practices, I help clients quickly build quality software, train their developers, or improve their practices.

Formerly a UX designer (at New York Times, HuffPost, 20th Century Fox, and others), I can seamlessly bridge the language gap between designers and developers. I continue to advise clients on usability, information architecture, and visual design.

### Software Engineering Skill Summary

#### **General**

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

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

#### **Backend**

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

Experience with SQL databases, Mongo, Redis. Data modeling, RDF.

#### **Frontend**

Steeped in the React ecosystem

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

Deeply familiar with DOM APIs, browser behavior, performance.

Some experience with accessibility, WCAG, ARIA; SVG & animation.

#### **Dev Ops/Workflow**

Git, AWS, CircleCI, Docker, Heroku, etc.

### Select Clients & Roles

#### **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 Quartz Media (Contract)** Oct 2017 – Jan 2018

Independently built an internal web app enabling the ad sales team to better convert potential buyers. Worked across the stack with React and Express; codesigned its UI.

#### **Engineering Fellow at Robin Hood Foundation/Blue Ridge Labs** Jun – Nov 2016

Teamed up to create Good Call, an emergency hotline that rapidly connects arrested individuals, their family members, and a public defender.

Built and ran dev-ops for the hotline's backend, including integrating it with existing public defender systems and building fail-safes to maximize its availability.

#### **Specification Editor for JSON API** Jun 2015 – Present

Editor of this open-source specification to standardize JSON-based HTTP APIs, with Yehuda Katz and Dan Gebhart. Author of a Node.js server implementation.

Select Clients & Roles  
(Contd)

**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, to find the relevant information in them.)

**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 City's largest student-run tech/entrepreneurship group.)  
Launched successful programs to build group's infrastructure (an API & intranet), improve its diversity, expand democratic decisionmaking, bring board closer together.

**Full Stack Developer at Report LA** Jan 2009 – Jun 2010  
For this independent newspaper, built custom CMS supporting sophisticated story ranking and syndication. Built the site's frontend as well (pre web app days).

Awards

**net Magazine's 2013 Brilliant Newcomer Award**  
Nominated by this international web design magazine as a web developer with "outstanding achievements over the last year".

Teaching Experience

**Crossing the Digital Divide & The Fortune Society** Teacher / 2008 – 2010, Fall 2012  
200+ hours of in-classroom teaching experience. Taught computer, writing, and public speaking skills to adults in drug recovery at Crossing the Digital Divide. At Fortune, taught GED prep courses for formerly-incarcerated students.

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.

**Program on Negotiation at Harvard University** Spring 2017  
Learned key theories of bargaining, dispute resolution system design, and mediation through this two month course on mediation and conflict management. Honed my dispute resolution skills through training exercises led by professional mediators.

Detailed List of  
Software Skills/Tools

*Web development @ Build tools:* react-router, redux, redux-loop, redux-form, Sass, Babel, Webpack, Browserify, Grunt, Gulp, Bootstrap, Blueprint, etc.

*Testing/Code Quality:* Mocha, Chai, Jest, JSVerify (property-based testing tool), JSDOM, react-testing-library, Enzyme, Istanbul, Cypress, Selenium, Puppeteer, ESLint, TSLint, etc.

*Node tools/libraries:* Express, Mongoose, Knex, Winston, Dataloader, Auth0, etc.

*Design Tools:* Photoshop, InDesign, Sketch.

Exposure or some experience with other languages (Clojure, PHP, Python, Scala, Java, Prolog), web frameworks (Flask, Symfony), CMSs (Wordpress), databases (Neo4j), etc.