

# Julian Boilen

Full stack software engineer in NYC with penchant for design  
julianboilen.com

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## EDUCATION

Rochester Institute of Technology, BS in Software Engineering

Graduated 2015

**Summa cum laude; GPA 3.83; Honors program; Deans list** every term

**Relevant coursework** Engineering of Software Subsystems (Design Patterns), Concurrent Systems, Engineering Secure Software, Computer Science Theory, Analysis of Algorithms, Programming Language Concepts, Software Requirements, Software Testing, Process and Project Management, Engineering Fundamentals of Computer Systems, Typography and 2 other graphic design courses.

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## WORK EXPERIENCE

FreeWill Co., Senior Software Engineer

July 2019–present

Invented and advocated for software patterns that built a solid foundation for new and future products, including: a React-based PDF generator, a React Wizard component to abstract step-based flows, using Tsoa and OpenAPI to generate RESTful routes and a typed frontend client library, and a screenshot-diffing testing system. Raised \$1B+ for charity.

Squarespace Inc., Senior Software Engineer & Team Lead

July 2018–July 2019

Launched a new team to research, design, and implement features to help businesses with a physical presence manage their online brand across online listings sites. On-boarded new hires and formulated new frontend design patterns in a greenfield project to slow the expansion of the company's monolith while appearing seamless to the end-user. Held regular scrum rituals and one-on-ones.

Squarespace Inc., Software Engineer

June 2015–July 2018

Worked full stack all across the product, both keeping up with the latest front-end trends while maintaining growing billing and account management systems. As the team became specialized in billing, I was involved in architecting and building a highly intricate event-sourced custom subscription billing system to accurately bill customers for Squarespace's several products while maintaining a long history of millions of customers in an interminable number of states and produce accurate data for revenue recognition.

Leveraged microservice architecture, event-sourcing, Spring Boot, PostgreSQL, REST, Kubernetes, React, MongoDB.

Squarespace Inc., Software Engineering Intern

January–August 2014

Completed projects touching almost all aspects of the product. Completed a careful mass-modification of almost 2 million customer websites with a clear accompanying interface for customers to understand and manage this change.

Siteworx, LLC., Backend Development Intern

June–August 2013

Created Java and PHP modules and APIs for a custom CMS for clients.

Democratic National Committee, Video Team

June–August 2012

Responded to the issues of the day with rapid-response web videos during the 2012 presidential election season.

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## SIDE PROJECTS

- In 2018, the NYC Municipal Archives released digitized photos of every building in New York City circa 1940. I placed these photos on a map, building a street view of 1940s New York City at [1940s.nyc](http://1940s.nyc). *Press*: Time Out, Boing Boing (2020)
- In collaboration with a statistician and an NYC artists' collective studying the value of art school, developed an interactive data visualization of US Census Data about artists in the United States. Exhibited on a wall-mounted iPad for 3 months in the Museum of Arts and Design's *NYC Makers* biennial; accompanied the Brooklyn Museum's show *Crossing Brooklyn*. *Press*: Hyperallergic (2014)
- Helped launch and grow a low-power FM community radio station in Takoma Park, MD/DC with a custom web application to browse and listen to show archive recordings and playlists and view a programming schedule. (2018, built initial site in 2011)

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## SKILLS

**Proficient** Java, Spring Boot, REST, HTML & CSS/LESS/SCSS, Javascript/Typescript, React, Webpack, NPM, software design patterns & architecture, event-sourced architectures, microservices, Serverless, online payments & billing, Photoshop

**Intermediate** PostgreSQL, MongoDB, Kubernetes, AWS, Figma, Premiere, Audition

**Non-technical** Eagerness to learn new skills, frameworks and languages; scrum; facilitating collaboration.