

## EXPERIENCE

### Senior Software Engineer

*Bloomberg*

Aug 2020 - Present

- Core maintainer of Bloomberg UI & Data Visual React Typescript component libraries, driving improvement in developer productivity and contributing to open-source adoption across Bloomberg Web teams.
- Architected and executed a comprehensive UI rewrite from Clojurescript to Typescript React for Bloomberg Vault's internal testing tool, which unblocked a strategic migration of 15,000+ users from a legacy application to a modern, streamlined platform. This initiative reduced technical debt, improved user adoption, and significantly enhanced system reliability.
- Designed high-level technical designs for critical infrastructure improvements, including:
  - Client-side logging for a micro frontend setup, which leveraged an Bloomberg Javascript logging library.
  - Generic autocomplete Python Flask API service that supports multiple complex datasets with 99.9% performance reliability.
  - MVP for a cross-participant analytics platform processing daily/weekly instant messages & emails, using React/TypeScript frontend and Python/Flask microservices to aggregate data across Bloomberg's messaging ecosystem with 99.9% reliability.
- Spearheaded team-wide migration to a modern tech stack (React 18, TypeScript, Vite), reducing maintenance costs by 60%

### Associate Software Engineer & Instructor

*App Academy*

Jan 2020 - Dec 2021

- Prepare and deliver daily lectures on Ruby programming paradigms and fundamentals that involve using best practices in software engineering.
- Perform daily code reviews on student's work in order to prepare them for one of the nation's top coding bootcamps through AGILE software development techniques such as pair programming.

### Senior Associate, Marketplace Operations

*NewtonX*

Jul 2017 - Jun 2018

- Facilitated connections between clients & experts through our marketplace and drive value by delivering relevant expertise to top tier technology & consulting firms, including BCG, Bain, McKinsey, Microsoft, and Activision.
- Assessed our client's granular knowledge needs and created a precise list of keywords in order to design a sophisticated search strategy, via LinkedIn, to source the largest pool of relevant experts.
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## PROJECTS

### Dropify - Built with Rails, React, Redux, PostgreSQL, Webpack, HTML5, CSS3, Heroku, AWS | [Github](#)

*A single-page Spotify clone where users can stream music, create playlists, and like/follow their favorite content*

- Implemented a customized React music player using HTML5 audio with Redux's global store by dispatching actions only when sharing information across components and encapsulating music player data to provide an uninterrupted experience during navigation.
- Designed a search algorithm that utilized SQL queries and back-end controllers to filter entries in the database alongside a front end sorting algorithm to display search results in order of relevance to the user's search query.
- Constructed modal and dropdown menu components that dynamically updates its contents based on the CRUD action selected by the user, ensuring a maintainable and DRY codebase.
- Reduced number of PostgreSQL database tables needed for user follows/likes by 50% by utilizing polymorphic associations on the database level, as well as Rails concerns on the model and controller level, ensuring a DRY and readable codebase on both the front-end and back-end.
- Connected the Rails backend to AWS S3 for audio/image storage and organization, which reduced server load and improved scalability, while maintaining content security with AWS IAM.

## EDUCATION

**App Academy** - 1000 hour intensive full-stack web development course with a less than 3% acceptance rate

Aug 2019 - Nov 2019

**Lafayette College** - BA - Mathematics & Economics - Minor - Financial Policy & Analysis

Aug 2011 - May 2015

## SKILLS

React, Redux, Next, Express, Node, Rails, Flask, Javascript, Typescript, Ruby, Python, jQuery, SQL/Postgres, MongoDB, AJAX, Git, D3, HTML5, CSS3, Webpack, Vite, GraphQL