

# Jeremy S. Bernier

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## Lido

### FOUNDING ENGINEER

*New York, NY*

*Dec 2019 – Present*

- Led development of greenfield SaaS project to launch, hiring and managing a team of developers
- Built a data integration system enabling users to pull data from various 3rd party APIs (Google Analytics, Facebook Ads, Shopify) into PostgreSQL and dynamically join this data together in real-time, automatically generating the necessary SQL queries and joins on the backend via a universal ontology and modeling the entity relationships as a graph.
- Initiated and led migration off old legacy ORM (Prisma v1) to TypeORM/TypeGraphQL
- Standardized best practices on backend GraphQL API and frontend with Next.js, React, Mobx, Emotion

## Jeremy Bernier Consulting

### CONSULTANT

*San Francisco, CA*

*2018 – 2019*

- Built a RISC-V learning web application for SiFive using Node.js, AWS, and Web Components, enabling educators to create courses and assessments, and students to take them.
- Revamped the marketing website of origin.io - adding videos, mobile support, static site generation for SEO via headless Chrome, optimizing images, and creating various UI components (React, TailwindCSS)

## Vroom

### ENGINEERING LEAD

*New York, NY*

*July 2016 – Nov 2017*

- As first engineering hire in the new NYC HQ, led redesign of flagship ecommerce website (vroom.com), migrating off an old monolith to a modern universal single-page Javascript Node.js/React/Redux app. Ultimately led to page load times reducing from 500ms+ to <50ms, server costs cut to a fraction, simplification of the codebase, and dev speed times increasing from 2-3 week cycles to continuous deployments
- Spun off codebase into internal boilerplate which was standardized and used by other developers to create both internal apps and consumer-facing apps like sellusyourcar.com
- Implemented continuous integration with CircleCI, Optimizely for A/B testing

## iHeartRadio

### FULL STACK ENGINEER

*New York, NY*

*Dec 2014 – June 2016*

- Full-stack web engineer for www.iheart.com (200M pageviews/month), a universal single-page Javascript app with a music player. React.js, Node.js, Javascript (ES6), Jenkins, AWS, Jenkins, Docker, Foundation, Jira, being the solo web engineer for 3 of those months.
- Migrated player off flash-based FlowPlayer (RTMP) to JW Player (HLS), fixing various critical inherited bugs (eg. player randomly freezing) that had delayed migration for months prior to me joining.
- Developed “Favorites Radio” station page and functionality, the “My Music” page, and the new podcast player.
- Implemented features such as automatically reconnecting after losing internet connection, anonymous listening, Optimizely for A/B testing, Appboy for real-time push notifications
- Redesigned website to support mobile (Foundation, Sass)
- Maintained Nginx config and Ansible playbooks

## Varick Media

### PLATFORM ENGINEER

*New York, NY*

*Feb 2014 - August 2014*

- Wrote MapReduce queries in Scala to run via Spark over Hadoop cluster to gather data insights
- Created interactive data visualizations with D3.js and Three.js/WebGL
- Proposed the adoption of a front-end framework and implemented Angular

## Bank of America Merrill Lynch

### TECHNOLOGY ANALYST INTERN

*New York, NY*

*June 2011 - Aug 2011*

- Quantified inconsistencies between BofA and Merrill Lynch's legacy SQL databases

## Software Technologies Lab

### WEB DEVELOPER

Blacksburg, VA

May 2009 - Nov 2009

- Developed with PHP, MySQL, and Javascript to add new features to a proprietary website used by the Department of Energy.
- Created an annual reporting system and an alert notification system.

## PERSONAL PROJECTS

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### zsync.xyz

June 2022 - Present

- Built an internet forum and content aggregator (like Reddit) where high quality content is rewarded via crypto tokens, UI/UX, and gamification.
- Stack: Next.js, React.js, Apollo GraphQL, TailwindCSS, TypeGraphQL, TypeORM, PostgreSQL, Redis, Google Cloud, ethers.js, hardhat

### nomadz.app

June 2022 - Present

- Built a map application for remote workers that crowdsources useful free places to work (eg. work cafes), and allows reviewing places on wifi speed, power outlets, and atmosphere.
- Stack: Leaflet, OpenStreetMap, Google Maps API, Next.js, React.js, Apollo GraphQL, TailwindCSS, TypeGraphQL, TypeORM, PostgreSQL, Redis, Google Cloud

## EDUCATION

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### Columbia University

#### M.S. OPERATIONS RESEARCH

New York, NY

Sep 2012 - Dec 2013

### Virginia Tech

#### B.S. MATHEMATICS, Magna Cum Laude

GPA: 3.94/4.00 (last 3 years), T.W. Hatcher Mathematical Scholarship

Blacksburg, VA

Sep 2008 - May 2012

## OTHER

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**Interests:** Entrepreneurship, crypto, travel (44+ countries), economics, videography, music production

**Languages:** English (native), Japanese (conversationally fluent), Spanish (basic)