

# Jeremy S. Bernier

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*Senior full stack engineer who's built commercial single-page apps from scratch for billion dollar companies, led and managed engineering teams, and isn't afraid to get his hands dirty.*

## EXPERIENCE

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### Vroom

New York, NY

#### ENGINEERING LEAD

July 2016 – Nov 2017

- First engineering hire in new HQ for Vroom, an ecommerce company with over \$1 billion in revenue.
- Rewrote flagship ecommerce website (vroom.com) from scratch as a universal single-page Javascript app on a modern tech stack (Node.js, React, Redux, Webpack, PostCSS, Sass, Nginx, Docker, CircleCI for continuous integration, Google Cloud, Optimizely for A/B testing, Omniture for analytics), drastically increasing page speeds and reducing development time. Went from 300ms+ to <50ms latency, 2-3+ week release cycles to continuous deployments.
- Hired and managed/mentored team of 5 engineers, utilizing agile/scrum, Jira, etc
- Created internal boilerplate, which was the standard at the company used by other developers to create both internal apps and consumer-facing apps (sellusyourcar.com)

### iHeartRadio

New York, NY

#### FULL STACK ENGINEER

Dec 2014 – June 2016

- Full-stack web engineer for www.iheart.com (20M unique visitors/month), a universal single-page Javascript app with a music player. React.js, Node.js, Javascript (ES6), Sass/Compass, Jenkins, AWS, Jenkins, git, Docker, Foundation, Jira, Agile, etc. Was the solo web engineer for 3 of those months.
- Developed a brand new station and its page called "Favorites Radio", the "My Music" page, a new podcast player, etc. Implemented features such as automatically reconnecting after losing internet connection and logging errors via UDP
- Migrated player from flash-based FlowPlayer to JW Player after fixing critical inherited bugs (eg. player randomly freezing) that had delayed migration for months prior to me joining.
- Made the site responsive and mobile-friendly (Sass, Foundation), developed mobile banner ad
- Implemented Optimizely (A/B testing), Appboy (real-time push notifications), and anonymous listening.
- Updated the Chromecast player to support JW Player and HLS streaming

### Varick Media

New York, NY

#### PLATFORM ENGINEER

Feb 2014 - August 2014

- Wrote MapReduce queries in Scala to run via Spark over Hadoop cluster.
- 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

New York, NY

#### TECHNOLOGY ANALYST INTERN

June 2011 - Aug 2011

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

### Software Technologies Lab

Blacksburg, VA

#### WEB DEVELOPER

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.

## EDUCATION

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### Columbia University

New York, NY

#### M.S. OPERATIONS RESEARCH

Sep 2012 - Dec 2013

### Virginia Tech

Blacksburg, VA

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

Sep 2008 - May 2012

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

## OTHER

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**Interests:** Travel (visited 33+ countries), video production, music production (eg. EDM), economics, self-development, entrepreneurship