

# Jeremy S. Bernier

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*Building software since 2001, while exploring 50+ countries*

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## Canvas

*San Francisco, CA*

### FOUNDING ENGINEER

*Nov 2023– Present*

- First hire for Sequoia-backed startup with 32+ customers and over half a million in revenue
- Built an alert notification system, enabling customers to create custom alerts on their data. Designed and built everything end-to-end, utilizing in-memory streaming and queues for scalability (Node.js, Nest.js, Postgres, Redis, BullMQ, S3, Snowflake, React, Rust)
- Built various custom API connectors with AWS Lambda. Enabled storing the data directly in S3 and querying it via Snowflake, saving Snowflake costs and eliminating dependency on Fivetran
- Created a React npm package (canvas-embed) allowing customers to embed Canvas dashboards in their product - a heavily requested feature from users.
- Worked with customers to set up their data warehouses, custom connectors, data models, and visualizations, while teaching them to use our product and iterating based off of this experience and their feedback. Improved various UI/UX features on our data product built with React, Node.js, Rust (WASM on frontend and Warp websockets on backend), BullMQ, AWS, Postgres, Snowflake, BigQuery, and Redshift.

## Lido

*New York, NY (Remote)*

### FOUNDING ENGINEER

*Dec 2019 – May 2022*

- Hired as first full-time engineer after seed round raise (\$11m valuation)
- 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.
- Keywords: Typescript, Node.js, Apollo GraphQL, TypeORM, TypeGraphQL, PostgreSQL, Next.js, React

## Vroom

*New York, NY*

### ENGINEERING LEAD

*July 2016 – Nov 2017*

- Hired as first engineer in new NYC HQ and promoted to Engineering Lead after 10 months
- Led web team - hiring, managing, and mentoring team of 5 engineers.
- Migrated [vroom.com](https://vroom.com) off old monolith to a modern universal single-page application (Node.js, React, Redux). The rewrite reduced page load times from 500ms+ to <50ms, reduced server costs to a fraction, simplified the codebase, increased shipping speed from 2-3 week cycles to continuous deployments (CircleCI), and ultimately led to increased sales, culminating in a successful IPO.

## iHeartRadio

*New York, NY*

### FULL STACK ENGINEER

*Dec 2014 – June 2016*

- Full-stack web engineer for [iheart.com](https://iheart.com) (universal SPA w/ music player, 200M pageviews/month).
- 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, “My Music” page, and new podcast player.
- Implemented features such as automatically reconnecting after losing internet connection, anonymous listening, Optimizely for A/B testing, and Appboy for real-time push notifications
- Keywords: Node.js, React, Jenkins, Nginx, Ansible, Sass, Docker, Javascript

## Varick Media

*New York, NY*

### PLATFORM ENGINEER

*Feb 2014 - August 2014*

- Wrote MapReduce queries in Scala to run via Apache Spark over Hadoop cluster to gather data insights
- Created interactive data visualizations with D3.js and Three.js/WebGL

## PERSONAL PROJECTS

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### mindgarden.app

August 2022 - Present

- Note-taking app like Notion, except works offline and can publish folders (powers [codefire.dev](#) & blog)
- ~15k lines of code. Tech stack: React, Lexical, Next.js, Node.js, PostgreSQL, Google Cloud

### zsync.xyz

June 2022 - Present

- Internet community of communities with crypto auth + tipping and real-time updating with websockets. 170+ registered users, and launched to front page of HN.
- ~9k lines of code. Tech stack: Next.js, React, Tailwind, Node.js, Google Cloud Run, Digital Ocean (VPC)

## 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

## Technologies

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**Backend:** Typescript, Node.js, PostgreSQL, Redis, REST API, ts-rest, TypeORM, TypeGraphQL, Apollo GraphQL

**Frontend:** Next.js, React, Tailwind CSS, Rust, WASM, Zustand, Redux,, webpack, PWA

**Infrastructure:** AWS, Google Cloud, Cloudflare, Digital Ocean, serverless, linux, GitHub Actions, Docker, linux, PostgreSQL, Snowflake

## OTHER

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**Interests:** Entrepreneurship, AI (Artificial Intelligence), open source, travel (50+ countries), economics, philosophy, videography, music production, comedy

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