

# Evan Berg

(software engineer || recovering musician)

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## Skills

Ruby/Rails, PHP, Python, SQL(raw, mysql, psql), AWS, Linux Servers, GIT, Testing, Mongo, Redis, Elasticsearch, Javascript, React, VueJS, HTML/CSS, Microservice Architecture, Messaging Services (IBM / Rabbit)

## Experience

### **NCCER, Remote** – Senior Software Engineer

Stack: Ruby/Rails, Hotwire, PSQL, AWS(ECS, RDS, S3, etc...), Sidekiq, ReactJS, JSReports, RSPEC

March 2024 - Present

- I was brought in as the 2nd developer in an effort to internalize the tech side of the company.
- This included taking ownership of multiple applications, working with existing contractors on various projects, knowledge transfer and taking ownership of contractor owned apps, and working on AWS, GitHub, and our deployment process.
- I immediately helped build out new projects (Craftpro) for expansion into new business opportunities, handled numerous UI updates across the internal side of our platform., and helped onboard new developers brought in.
- I worked on numerous fixes across internal and external reports, made decisions on libraries to bring in to make our internal user experience better, sure'd up API security and added custom token authorization, added extensive interfacing with Salesforce to keep internal data up to date, and updated our caching infrastructure across the platform.
- Worked with tech lead to debug a months-long issue with a complex part of our system to credential crane operators by discovering dates being pulled in were coming from incorrect sources. This involved combing through hundreds of lines of code to find the one line bringing in incorrect data.
- Tasked with learning and rewriting our CDK to simplify our deployment process and adding of AWS resources such as new S3 buckets.
- Worked on automating numerous internal processes such as creating a system for our inhouse printing specialist to obtain a csv of users, create PDFs of our wallet cards, used to confirm credentials on job sites, and hand them off to him in a way that makes it very easy to mass print them.
- Fairly quickly started participating in meetings with leadership contributing to decisions on direction for the tech side, hiring of new developers, how and when to start ending contracts with vendors, and helping to establish a tech oriented company infrastructure. This also involved having conversations with long standing employees about what are now acceptable and not acceptable things to be doing with our infrastructure from code base to AWS.
- Most recently assumed the work of 2 other engineers who were let go of. This involved picking up projects that were unfinished, reviewing all incoming PRs from vendors, running deploys and in general managing out GitHub and git workflow, representing the dev in company wide meetings, and helping with the interviewing and hiring process for new engineers (both tech lead and junior).

## **Atlantis Technology, Remote** – Senior Software Consultant

Stack: Ruby, MYSQL, IBM Message Bus, Rabbit MQ, Kubernetes, Big Data, Microservices, Slidekiq, RSPEC, AWS

July 2022 - August 2023

- I was hired for a contract with BNY Mellon to work on their Positions Tracking System and new Broker Cash project.
- My work with BNY Mellon consisted entirely of backend work on their massive microservice architected system.
- Handled deployments to testing and QA environments (a fairly involved process with lots of steps and approvals required).
- Helped younger developers on our team with rebasing in accordance with branching and PR strategy at BNY Mellon and worked with others on Rabbit and IBM queue management for testing and QA environments.
- Various tasks and projects included:
  - Updating internal ruby gems used for assembly files and docker files.
  - Assisted creating a new database cluster for a newly created microservice, and setting up each new database within the new cluster, including running migrations from shared migrations repo and directing new microservices to use appropriate newly created databases.
- Broker Cash Project:
  - Created new microservices to receive data off the message bus in mostly JSON, sometimes XML formats.
  - Pulled data from a shared database based on data pulled out of the JSON marker received from the message bus system.
  - Enriched data via instructions from management. Process included running incoming data against CSV files received from management, and either extracting data, extracting and converting data, or running methods to properly format, clean, and or combine data.
  - Once data was clean and set, a process was kicked off to create either txt, or csv files (depending on microservice and destination for the data).
  - Last steps were to create tasks to drop new messages onto the message bus to alert the process was completed successfully.

## **Excella, Remote** – Senior Software Consultant

Stack: Python/Django, PSQl, Django-Tables2, HTML, JS, Azure, Unittest, AWS

February 2022 - July 2022

- I was initially hired to work on a government contract as a Ruby on Rails and React engineer.
- During the time I was going through the clearance process I was put on a few different internal projects in various languages and technologies, and also acquired my 508 accessibility certification.
- My first project seemed like busy work at first (which I still think it was, but still proved fruitful) was to put together documentation on Git/version control, Testing, Security, Ruby on Rails applications. This was helpful in reinforcing concepts and principles that while I still remembered, it always helps to remind oneself of them.
- My second project was doing a bit of work (both learning and executing) on SAML, and SSO via JumpCloud for internal applications. This mostly involved configuring applications using SSO and not a lot of coding work, but this did bolster my knowledge of how single sign on works.
- My largest project for Excella was working on an internal tool for HR and contractor management.
  - This project was written in Python and Django and primarily using the django-tables2 dependency.

- This project involved creating new pages for an overview of all current clients, projects and contractors with quick visual indicators for where contractors are in relation to clients and projects.
- This involved writing new migrations for both adding columns to existing tables and creating new tables, the purpose of which was to make data accessible to categorize contractors based on status (on the bench, awaiting clearance, on a project, etc...) and using a color scheme to represent each of the related statuses.
- Working on this project also involved learning the Azure echo system for deployments to staging and production environments.

## **Casting Frontier, Remote / Los Angeles – Team Lead/ Principal Engineer**

Stack: Ruby/Rails, MySQL, VueJS, Elasticsearch, WebRTC, Mongo, PHP, Resque, Oauth, RSPEC, HTML, JS, jQuery, IBM(Linux boxes)/AWS(Serverless)

April 2016 - January 2022

- Started as a software engineer, contributed to the company being purchased, and finished my time at Casting Frontier as team lead and principal engineer.
- I was immediately entrusted to work on bug fixes, write tests, create new features, and soon thereafter, run deployments, and be on call when needed.
- I contributed heavily to overhauling the frontend UI/UX aspect of the application, contributed to the design of numerous pages, and built a few VueJS applications including a sign up application and an Actor to Casting Director and affiliates remote casting application.
- I worked directly with large scale clients to work out bug fixes and create requested new features
- Running deployments, fixing data issues, running migrations for testing environments all involved SSHing directly onto our servers and doing all these things manually. While we had deployment scripts, those would need editing directly on the servers, along with many other scripts.
- Features I created that I'm proud of before buyout:
  - VueJS signup app
  - Selfie per role submission for actors
  - Favorited clients for casting directors with shared notes and liked and disliked actors lists
  - Created background tasks checking actors subscription status, sending out warnings at designated times before expiration, handled auto downgrading, altering prices from sale prices to normal prices for actors who purchased on sale
  - Creating ability for directors to copy projects from region to region, giving them the ability to expand beyond their area in the time of covid
  - Switching photo editing and handling from Clipchamp to Cloudinary
  - Contributed to enhancing search features via a custom built search script and using Elasticsearch
  - Pulling data on demand, creating tasks that regularly pull data, and building internal tools to pull specific sets of data for both employees and users
  - Switched authorization from hand rolled auth to using Devise
  - Plus many more
- Post Buyout Work
  - After getting bought out, the original CTO left, a new CTO was brought in, he was let go of, and I was moved into the "CTO" position for Casting Frontier, but more of a tech lead and principal engineer position
  - My main responsibilities included running morning stand ups, representing my team in meetings with VPs, making small tech choices and working with VPs to make larger ones, reviewing all pull requests, mentoring/tutoring junior developers, hiring new developers, and working directly with devops engineers.

- My biggest project leading the team was moving the platform from old school servers to an AWS Kubernetes pods based setup. This included cleaning up some of the original Dockerization of the application, transferring repos from BitBucket to GitHub, transferring test data and eventually production data, reworking configurations from NGINX on up through the stack, setting up RDS databases on AWS and configuring all applications to use said DBs, and debugging issues. Thankfully I had a great team and a spectacular devops engineer and VP of devops to help with all of this and in the end it all worked out.

### **Freelance, Remote – Software Engineer**

Stack: Ruby/Rails, PSQl, VueJS, ReactJS, HTML, CSS, jQuery, JS, various hosting services

September 2015 - April 2016

- I worked on various projects from static sites to Ruby on Rails applications.
- Clients and projects included static pages for a ski resort, an audio based iOS application, a real estate company in the northwest and a CMS style Ruby on Rails application for a Washington D.C. based water company.

### **Tripwing, New York City – Software Engineer**

Stack: Ruby/Rails, JS, jQuery, HTML, CSS, Nokogiri, Resque, Heroku

February 2015 - September 2015

- This was my first coding job. Tripwing was a luxury travel based application
- I worked on debugging existing features and building new ones
- I also worked heavily on the frontend UI/UX and contributed to design
- I helped speed up the application by reducing calls to the database through some basic ActiveRecord query updates
- Bolstered our unit testing and wrote an entire frontend test suite
- Represented the company at meetings with prospective clients and worked directly with current clients on features and fixes
- My biggest accomplishment at Tripwing was a project enabling users to email itineraries to an email we set up which would automatically forward the itinerary to an API that would send a XML breakdown of the email. Once that data was received by the application I wrote code to extract the necessary data from the XML, find the users trip itinerary based on data contained within the email, and write the data pulled from the XML to the users trip itinerary. This was my first big feature to build on my own and am still proud of the work I did.

## **Education**

**General Assembly, New York, NY – Web Development Intensive – 2014**

**Berklee College of Music, Boston, MA – Bachelor of Arts – Graduated 2008**

**Certification:** 508 Accessibility Compliance Certification