Evan Berg

Software Engineer | Recovering Musician

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EXPERIENCE

Atlantis Technology – Senior Software Consultant

June 2022 - PRESENT

- Hired in June of 2022 and immediately went to work with Atlantis client BNY Mellon on their Position Track System and Broker Cash Project.
- This involved a massive microservice architecture and all back end work.
- Also worked in a devops capacity for test and QA environment deployments, branch rebasing and Queue management (IBM MQ/RabbitMQ)
    - My first task was to update an internal gem used to create assembly files and docker compose files for all microservices.
    - Database work
        - I helped to set up a new dedicated database cluster for a microservice, and pointed to said microservice at the new DB.
        - Once the new dedicated DB cluster was set up in the test environment, I assisted in setting up each individual DB for various microservices, ran migrations and connected DBs to applications they utilize.
    - Broker Cash Project
        - Data enrichment and extraction
            - Worked on data enrichment in the process from receiving a marker containing XML, loading the raw data into "raw" data tables in the first service in the process. This service then triggered the enrichment process.
            - Worked on enriching data based on mapping from a CSV file and saving that data to "enriched" data tables in the database.
            - Created multiple new microservices for extracting certain data from certain services and workflows. This service then triggered the extraction process.
            - Set up services to listen to specific "markers" dropped onto a message queue via IBM MQ or RabbitMQ.
            - Consumed Marker and based on data in marker triggered specific extraction service which queried data based on params from the marker, mapped data based off a CSV and created a .txt file with extracted data and sent to s3.

Excella – Senior Software Consultant

February 2022 - June 2022

- Hired in February 2022 to initially work on a Ruby/Rails application, however was first put on a Python/Django internal application.
    - For this project I worked on adding new functionality and expanding existing functionality.
    - Added new models and columns to existing ones.
    - Expanded a feature using various colored lights to represent various states of a project in our company lifecycle.

SKILLS

Software Engineer with 8+ years of professional experience in fintech, HR Software, the entertainment industry, travel industry and freelance.

EDUCATION

B.A., Music Business, Berklee College of Music, Class of 2008

Certificate, Web Development, General Assembly, Class of 2014

CERTIFICATIONS:

508 Users with Disabilities Certificate
– Obtained in 2022

TECH STACK:

- Ruby, Ruby on Rails
- PHP
- Python, Django
- Javascript
- React
- VueJS
- HTML5/CSS3
- SQL (Mysql, PSQL)
- Bash
- Mongo
- Redis
- ElasticSearch
- AWS
- GIT
- Linux
- Microservice setup
- Data Warehousing
- IBM MQ / RabbitMQ
- DevOps
- Testing (BDD / TDD)

- - Added a more frontend feature rich experience for the new features created.
    - Wrote unit tests for the new feature, added in some tests for parts of the app that didn't have them and fixed some old/failing tests.
    - Learned the Azure deployment process and app suites from releasing to staging and production, to sorting out where to find error logs for both the deployment process and running application.
  - Worked with the Director of Modern Software Delivery to put together baseline best practices for new jr. devs coming into the company on the following topics:
    - Git/Version control
    - Testing
    - Security
    - Ruby/Rails applications
  - Worked with the Director of Modern Software Delivery to update the SAML2 library/SAML login process via SSO for an internal application via JumpCloud.
  - For Personal Development time I worked on sharpening my React skills by building multiple applications either entirely in React or in conjunction with a Ruby on Rails API I also built.

Casting Frontier – Team Lead / Principal Software Engineer

April 2016 - January 2022

- Promoted to Team lead / Lead developer in 2021.
  - Moved our Rails app from old school IBM SoftLayer physical servers to modern AWS set up.
    - Utilized RDS, Elasticache, Mongodb, Route 53, Cloudfront, Kuberenetes, Infra/Lens, etc…
  - Responsible for running tech related meetings, including:
    - Daily Standups
    - Spring Planning Sessions
    - Long term planning with other team leaders
    - Sprint updates with managers / other team leads
  - Placed in charge of hiring new team members
    - Hired multiple new team members, including the person who took my place as team lead.
  - Assigning tickets to developer team
  - Reviewing all pull requests
  - Running all deploys
  - Handling any and all server issues with my devops developer
  - Working with data team to improve DB performance
  - Working with dev ops developer to migrate entire system of IBM bare metal servers to AWS
- Focused on developing new features and bug fixes as well as working on server related issues and deploying to all environments.
- Contributed 4 years toward acquisition in Spring 2020.
- Helped transition in a new CTO
- Worked as interim CTO between old and new CTO
  - Ran all deploys to production and fixed any server issues
  - Answered all questions from support staff
  - Helped with any data issues for users
  - In charge of all maintenance/bug fixes/assisting front end devs and native app development
- Contribute to updating and expanding upon a large Mysql DB. Ie:
  - Created a Clients feature for Casting Directors where they can create Clients they work with on a regular basis, add notes about each client, and associate liked and disliked actors with each client. Doing this required a Clients table, Client Notes table, Liked

Actors Table, Disliked Actors Table, along with adding ability to search the entire database of actors to add to likes or dislikes list.

- Using Elasticsearch and a custom built search engine using Ruby, helped increase our applications search abilities.
- Created and fixed background tasks that send numerous emails to numerous users across our system. Ie:
  - Created a task that checks Actors that are in danger of being downgraded for nonpayment, or for lack of filling out proper information, and sends an email to their Agents if they are represented, or to the actor if not informing them of their impending downgrade.
- Server side debugging (old school style). SSHing into servers, reading logs, figuring out solutions.
- Updated the UI/UX through much of my own design, including all search pages, project and role creation pages, and created numerous new pages for new features.
- Constantly working on updating data reporting tools for all users (Actors, Agents and Casting Directors) and various ways admins can access and view said data.

Freelance

September 2015 - April 2016

- Last project was a simple JS application with a countdown until the 2018 midterm election and providing info and various methods on contacting your local representatives. The site also links you to local voter information for your area.
- Second to last project was a web application built in Ruby on Rails for the National Water Service for the DC metro area. I worked on this until the CEO became unresponsive and I terminated him as a client.
- Worked on open source projects and tutorials sharpening skills in Node, Python, PhaserJS, and Ruby.
- Built 5 static pages for various clients from iOS app pages to artist pages.

TripWing - Software Engineer

February 2015 - September 2015

- Debugged and kept all old features up to date with new technologies
- Built new features starting day 1, adding and changing tables in the database to creating new views and background tasks
- Worked with various API's and libraries to enhance the experience of our application. Ie:
  - Using an email parsing API I built a feature where users could forward their travel itineraries to a company email, which would then forward an email to an API which pulls out important information, and sends it to our application. Upon receiving the email, I wrote a script in Ruby that would parse the return, find the User and the Trip they are building in our system, and add the appropriate information for flights, hotels, car rentals, etc… to their existing trip in our database.
- Worked on speeding up the application by reducing load times via caching pages and searches using Redis and speeding up queries by joining and including associated tables
- Debugged numerous deployment issues with Heroku, including the updated Heroku Toolbelt issues
- Wrote a full capybara feature test for the front end from start to finish
- Represented the company at meetings and helped customers with both web based problems and their own technical issues.
- Introduced numerous new technologies to Tripwing via new and old features. This included in bringing Capybara, gems for better production and downloading data in CSV and Calendar(OSX, iOS, Google)

- Did extensive design and UI/UX work on the front end with JS, jQuery, HTML5/CSS3, Angular, and extensive work with Bootstrap. I integrated Angular into a preexisting rails application, adding automatic UI refresh on model updates.