

# (B R I A N) N A M R Y U L K I M

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## Recent Projects

**RetroBox** (Ruby on Rails, React.js/Redux, PostgreSQL, AWS, CSS)

A single page video hosting app inspired by YouTube

[Live](#) • [GitHub](#)

- Uploaded videos to AWS S3 by using Paperclip gem and FFMPEG transcoder buildpack
- Optimized the load on the PostgreSQL database and increasing responsivity by updating the DOM immediately and executing the AJAX requests on the show page when the user leaves
- Implemented a LRU Cache middleware to reduce number of requests to the server
- Utilized polymorphic association for likes on videos and comments for DRY code

**Dungeoness Crab** (JavaScript, HTML, CSS)

A rogue-like dungeon crawling game built on JavaScript

[Live](#) • [GitHub](#)

- Created a global leaderboard and saved individual user data in a Firebase Database
- Optimized drawing the canvas element with Easel.js by only redrawing objects that changed
- Loaded sprites and assets with Preload.js in order to ensure a seamless user experience

**TGauge** (Ruby)

TGauge is a lightweight MVC / ORM gem

[GitHub](#)

- Built out a CLI interface that allowed for the automatic generation of the project's folders including the folders for a React.js project if needed with the Thor gem
- Kept the functionality in the same namespace to build Ruby gem that can be downloaded

## Professional Experience

**Tower Research Capital**

New York, NY

Technical Implementation Manager

Nov 2015 - May 2016

Junior IT Project Manager

Sept 2014 - Nov 2015

- Scripted a modular application that streamlined the rack elevation design process and power calculations that is used by the entire project management team
- Developed the design and implementation of a hardware networking system that reduced the latency from exchange switches to the client's server down to 2% of the original time

**Wind Turbine and Energy Cables**

Fort Lee, NJ

Engineering Associate

Jan 2014 - May 2014

- Saved the company approximately 200 to 300 hours of labor per week by creating various scripts and macros to optimize and automate data entry and data analytics using VBA

**Science Research Workshop**

Evanston, IL

Undergraduate Teaching Fellow

Sep 2011 - Mar 2013

- Led a workshop to help students receive the Undergraduate Research Grant, which had an acceptance rate of 20% where 100% of my students were able to receive the grant

## Skills

Ruby / Rails	JavaScript
React.js	Redux
AWS	SQL / PostgreSQL
Heroku	HTML5/CSS3
Git	jQuery
RSpec	

## Academic Experience

**Northwestern University** - Evanston, IL

B.S. in Biomedical Engineering - Awarded March 2013

Curriculum Highlights: CS, Linear Algebra, Statistics

**App Academy** - New York, NY

Fullstack Development - Graduated November 2016

1000-hour full-stack web bootcamp with < 3% acceptance rate

Studied object oriented design in Ruby and modern web development with Rails, SQL, JS, TDD, algorithms, and design patterns