

# NAM RYUL KIM

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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](#)

- Reduced the number of AJAX requests and SQL queries on the likes and subscriptions by handling the request on the dismount of the React component reducing the load on the PostgreSQL database and increasing responsivity of the website.
- Hosted user uploaded videos and images using a combination of AWS, Paperclip gem, and FFMPEG buildpack.
- Utilized polymorphic association for likes to DRY the code and reduce the number of database tables

### **Dungeoneess Crab** (Javascript, HTML, CSS)

A rogue-like dungeon crawling game built on JavaScript

[Live](#) • [GitHub](#)

- Allowed for a global leaderboard by utilizing Firebase for an external database.
- Utilized Easel.js in order to interact with the canvas element more efficiently and create animations

### **TGauge** (Ruby)

TGauge is a lightweight MVC / ORM gem

[GitHub](#)

- Created a MVC with a built-in ORM that allows you to make updates to a Postgres database without writing much SQL code. Also, auto generates files for the web application with or without React.js

## Professional Experience

### **Tower Research Capital**

*Technical Implementation Manager*

*Junior IT Project Manager*

New York, NY

Nov 2015 - May 2016

Sept 2014 - Nov 2015

- Used VBA to script a modular application that allowed the automation of rack elevation design and power calculations. This is now used globally within the project management team, networking team, and system engineering team to effectively communicate the design.
- Developed the design and implementation of a hardware system that reduced the latency from exchange to server down to 2%.
- Interfaced with trade teams and support staff in order to understand their hardware requirements and best advise them on how and where to deploy their strategies.

### **Wind Turbine and Energy Cables**

*Engineering Associate*

*Intern*

Fort Lee, NJ

Jan 2014 - May 2014

Oct 2013 - Dec 2013

- Saved the company thousands of dollars in labor costs per week by creating macros for data entry responsibilities.
- Helped manage labor and equipment for over four hundred employees at various sites around the country

### **Science Research Workshop**

*Undergraduate Teaching Fellow*

Evanston, IL

Sep 2011 - Mar 2013

- Lead a workshop to help students get a position in a research lab and write a research proposal to receive the Undergraduate Research Grant, which has an acceptance rate of 20%. 100% of my students was 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: Linear Algebra, Statistics, CS

### **App Academy** - New York, NY

*Fullstack Development - Graduated November 2016*

1000-hour full-stack web development school with < 3% acceptance rate.

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