

# 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.
- Implemented a LRU Cache middleware to reduce number of requests to the server.
- Utilized polymorphic association for likes to DRY the code and reduce the number of database tables

### **Dungeoness 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 and Preload.js in order to interact with the canvas element more effectively.

Easel.js allowed for a more object oriented approach to utilizing canvas.

### **TGauge** (Ruby)

TGauge is a lightweight MVC / ORM gem

[GitHub](#)

- Utilized the Thor gem in order to build 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.
- The code was kept all under the same namespace in order to bundle the project into a gem that can be downloaded and used by anyone.

## 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 by the project management 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%.

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

*Engineering Associate*

Fort Lee, NJ

Jan 2014 - May 2014

- Saved the company thousands of dollars in labor costs per week by creating macros for data entry responsibilities.

### **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