

Kei Man Yeung

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Projects

Postr (React, Ruby, Rails, JavaScript, PostgreSQL)

[Live](#) | [GitHub](#)

A social blogging medium inspired by Tumblr with RESTful API and CRUD operations

- Implemented a Flux architecture for data retrieval from backend database to the frontend to easily manage data being passed to components in the view
- Eagerly loaded data for a responsive UI providing a smooth user experience
- Remotely stored file uploads in the cloud through AWS S3 for scalability to reduce load on server

BubbleS (JavaScript, Canvas, CSS3)

[Live](#) | [GitHub](#)

A browser game based on Puzzle Bobble that encapsulates objects' functionality through OOP

- Utilized HTML Canvas to draw bubble objects and to animate frames for moving objects
- Tracked mouse movements and clicks with event handlers to calculate direction to shoot bubble

RubyRMap (Ruby, SQLite3)

[GitHub](#)

A lightweight object relational mapping library based on Rails' ActiveRecord

- Defined table attribute setters and getters using metaprogramming to produce DRY code
- Created relational mapping of database tables to Model classes allowing for association queries

The ASCO Verification Tester

A testing platform used to verify industrial switch controllers

- Oversaw a team of six engineers to design and prototype a testing platform for Emerson's ASCO Switch Controllers by simulating three-phase AC voltage and current up to 300V and 12A
- Designed schematics and layout for all the circuits to be fabricated professionally onto PCBs
- Coordinated meetings with customer for project updates and to assign new goals to team members

Technical Skills

Ruby, Ruby on Rails, React, JavaScript, jQuery, SQL, HTML5, CSS3, Git, C, MATLAB

Education

App Academy

Web Application Development

Immersive full-stack web development program with emphasis on pair programming

New York, NY
2016

Columbia University, School of Engineering and Applied Science

MS in Electrical Engineering, GPA 3.43/4.00

New York, NY
2015

Binghamton University, Watson School of Engineering

BS in Electrical Engineering, GPA 3.84/4.00

Binghamton, NY
2013

Work Experience

Space Systems/Loral, LLC.

Communication Systems Intern

Palo Alto, CA
June 2014 - August 2014

- Travelled to Australia to support the site acceptance testing for the delivery of a satellite beam optimization tool to the customer by ensuring critical subsystems are fully functioning
- Responsible for setting up and testing a secure accounting, authentication, and authorization server using a RADSEC proxy
- Created a bash script to manage the network file system server of the payload control system by archiving older telemetry reports to reduce system slowdowns