

Szymon {Simon} Wojnar

PROJECTS

Lax (React/Redux, Rails, PostgreSQL) [Live](#) / [Github](#)
RESTful, single-page chat app with Redux architecture and JSON API

- Leverages the WebSocket protocol via the Pusher API to provide real-time messaging and updates
- Minimizes database connection overhead by eagerly loading required data through associations
- Ensures scalability by employing Amazon's CloudFront CDN service for caching assets via the AWS S3 API

Bronson (Ruby, Metaprogramming, SQLite) [Github](#)
Lightweight MVC + ORM package with RESTful HTTP conventions

- Utilizes the Rack request/response interface and regular expression matching to dispatch incoming HTTP requests to the appropriate controller actions
- Leverages OOP principles to provide an inheritable, ActiveRecord-like base class that exposes CRUD functionality

Thanks (JavaScript, HTML Canvas, jQuery) [Live](#) / [Github](#)
Browser game built with HTML Canvas API and jQuery

- Provides precise collision detection by directly querying pixel data using the HTML Canvas API
- Implements custom calculations to accurately model 2D particle motion and turret angle rendering

EXPERIENCE

Wilshire Associates - Jersey City NJ
Senior Business Analyst / Business Analyst- Analytics Team
July 2013 - September 2015

- Collaborated with Development and Data Management teams to implement and test new in-house portfolio risk analysis solutions
- Leveraged scripting to develop more effective ways of identifying data load and security modeling issues that saved the team 30 minutes every day
- Provided research and validation to help clients understand movements in portfolio risk and performance metrics
- Within one year of starting the position, took over responsibilities from a Senior Associate to manage all aspects of daily and monthly risk and attribution reporting for 80 portfolios (\$55B)

SKILLS

Ruby	Rails	RSpec
JavaScript	jQuery	React
Redux	SQL	Git
HTML5	CSS3	JIRA
Bootstrap	Python	AWS
WebPack	Linux	

EDUCATION

App Academy
Feb 2017 - May 2017
New York, NY

1000+ hour software development course with < 3% acceptance rate

Topics: Rails, JS, React/Redux, OOP, REST, SQL, algorithms, design patterns, TDD development

Stony Brook University
Sept 2015 - Dec 2016
Stony Brook, NY

Applied Mathematics and Computer Science

Courses: CS I/II with Java, Data structures, finite mathematics, linear algebra, calculus sequence

University of Glasgow
Sept 2011 - Nov 2012
Glasgow, Scotland
MS International Economics

Fordham University
Sept 2006 - May 2010
New York, NY
BA Economics