Oscar Liu

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Github   LinkedIn   Portfolio

Projects

Indoge (*Ruby on Rails, Backbone.js*)   Live | Github
Job Search app inspired by Indeed.com
- 100% single-page functionality enabled by Backbone.js for quick navigation
- Omniauth integration allows login and signup through Twitter
- Incorporates Paperclip for file upload and storage via Amazon Web Services
- Custom API routes utilize AJAX to handle PDF upload and send parsed text back to page

Tetris (*JavaScript, jQuery, HTML5 Canvas*)   Live | Github
Browser-based rendition of the classic game
- Custom inheritance function to extend block prototype methods to all block types to keep code DRY
- Minimizes calls to the canvas by only re-rendering the active block
- Board placement, cell positions, and block rotations all calculated by Cartesian mathematics to allow easy modification of game properties

MyActiveRecord (*Ruby, SQLite3*)   Github
ORM inspired by Active Record
- Utilizes Ruby's metaprogramming capabilities to replicate CRUD functionality of Active Record models
- Abstracts *has_many*, *belongs_to*, *has_one_through*, and *has_many_through* associations via SQL

Skills

Ruby on Rails · JavaScript · Backbone.js · jQuery · SQL · HTML · CSS · Git · RSpec

Education

App Academy   2015
Full-stack web development course with emphasis on pair programming, acceptance rate < 5%

Harvard University   2009 - 2013
B.A. in Economics cum laude, secondary in Psychology
Coursework in Computer Visualization, Statistics, Capital Markets, Econometrics

Work Experience

AdHarmonics (presently EverQuote), Cambridge, MA   2014
Quantitative Analyst
- Managed the company's search engine marketing campaigns with SEM team; personally performed daily optimizations on over 1000 keywords using both manual and automated bidding strategies
- Initiated experiments on advertisement appearance and language to boost traffic acquisition; analyzed performance data using SQL (via Navicat) and Microsoft Excel

The College Board, New York, NY   Summer 2012
SAT Data Analyst Intern
- Conducted a review of company website in collaboration with web designers to improve consumers' experiences in viewing product information and to make test registration more intuitive and streamlined
- Constructed a customer segmentation analysis of a cohort of over 1.5 million students to assist the company in developing strategies to provide better services to students of all socioeconomic strata