

TIM HWANG

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programming

Ruby
Javascript
CSS3, SCSS
SQL
R
Python
VBA

libraries & frameworks

Ruby on Rails
React.js, Flux
jQuery

statistical analysis

ANOVA
Regression
IRT
SEM

languages

English
Mandarin Chinese

projects

codeGenius • Full-stack code annotation app for novice programmers [Live](#) • [Github](#)

Technologies • Ruby on Rails; React.js

Responsive design • Features single-page front-end for streamlined user experience; "optimistically" renders pages using cached data when editing

Custom authentication • Uses front-end integrated authentication built with BCrypt

Efficient API structure • Streamlines database queries using nested JSON views

Shortcut Sloths • Educational browser game about text editor shortcuts [Live](#) • [Github](#)

Technologies • Javascript; jQuery; CSS3

Text editor simulation • Replicates functionality of modern text editors using jQuery and keymaster.js, with features such as multiple selection & arrow key navigation

Rails Lite • Web server MVC framework replicating functionality of Ruby on Rails [Github](#)

Technologies • Ruby, Rack

Features • Implements Rails features such as router functionality, ERB rendering, error handling, and cookie data storage

JS-Snow • Browser-based snowfall simulator [Live](#) • [Github](#)

Technologies • Javascript; HTML5 Canvas

Physics engine • Processes wind speed, particle count, and drift using Javascript

education

Student • Full-Stack Web Development (2016 - current)

App Academy, San Francisco CA

Competitive software development bootcamp with 3% acceptance rate

Technologies • Ruby, Rails, SQL, JavaScript, React.js, HTML5, CSS

Topics • Test-driven development, object-oriented design, database design, algorithms

PhD • Industrial-Organizational Psychology (2013-2016) (**Incomplete**)

UConn, Storrs CT

GPA • 3.8

Research Interests • Judgment & decision-making, recruitment, leadership, statistical methods & psychometrics

Publications • 1 journal article; 1 conference presentation; 2 white papers

BA • Psychology, Managerial Studies; Business minor (2009 - 2013)

Rice University, Houston TX

GPA • 3.4, President's Honor Roll

work history

Analyst • Summer Intern (2015)

Leadership Research Institute, Middletown CT

Published 2 executive reports for leadership of multinational investment banking firm & financial software firm