Katherine Wallace

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I help teach a web development course and am a theoretical linguist by training. I am seeking a position where I can use my formal problem-solving skills to build software that can address practical needs in elegant and creative ways.

Projects

shareBnB • www.sharebnb.me • github.com/katherinewallace/sharebnb
- Cloned the apartment share website airbnb.com using Ruby on Rails and Backbone.js
- Solved constrained search using custom SQL queries to return apartments based on date ranges of overlapping bookings requests with dynamic statuses within multiple ranges of listed availability.
- Developed dynamic map results with Mapbox JavaScript API with self-centering triggered by user mouse-over of corresponding apartment listing.
- Integrated Backbone according to unobtrusive principles and overwrote sync method with custom routes to push more complex computations to back-end
- Set up a polymorphic notifications model to generate emails and in-site alerts upon user actions

ActiveRecord lite • github.com/katherinewallace/active-record-lite
- Cloned the basic ORM features of ActiveRecord with heavy use of Ruby metaprogramming
- Implemented mass-assignment, querying, and association methods

Rails lite • github.com/katherinewallace/rails-lite
- Cloned the basic features of Ruby on Rails using WEBrick server
- Implemented MVC framework with cookies and a router to match incoming requests using regular expressions

Technical Skills

Ruby • Rails • JavaScript • Backbone.js • jQuery • RSpec • TDD • HTML • CSS • SQL • Git • Python – previous experience • Java – previous experience

Work Experience

Teaching Assistant • App Academy   New York, NY • March 2014-present
- Assist with teaching and curriculum for 12-week full stack Ruby/Rails web development course
- Invited to teach 8 weeks after started course as a student
- Curriculum topics include Ruby, Rails, SQL, JavaScript, jQuery, Backbone.js, HTML5, CSS, TDD/RSpec

Teaching Assistant • New York University Linguistics Department   New York, NY • Fall 2012
- Led a discussion section of 28 students for an introduction to psycholinguistics
- Helped write and grade problem sets and exams

Education

New York University, Graduate School of Arts and Sciences   New York, NY • December 2013
Master of Arts in Linguistics with concentration in formal syntax and phonology
Master's thesis presented an innovative analysis of non-concatenative templatic morphology
Fully-funded McCracken Scholar • Cumulative GPA: 3.95

University of Pennsylvania, College of Arts and Sciences   Philadelphia, PA • May 2011
Bachelor of Arts summa cum laude with a Major in Linguistics
Cumulative GPA: 3.97 / 4.0 • In-Major GPA: 4.0 / 4.0
Phi Beta Kappa • Benjamin Franklin Scholar • Dean's List (2007-2011)

SAT: 720 Math, 800 Verbal, 800 Writing • SAT II: 800 Molecular Biology, 790 Chemistry, 760 Math

Other Skills

I enjoy reading, travel and board games. I have lived in Italy and Germany and am proficient in Italian and German