Katherine Wallace

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cell : (202) 699-9479 • U.S. Citizen

Technical Skills

Ruby • Rails • JavaScript • Go • Angular.js • Backbone.js • jQuery • D3 • RSpec • HTML • CSS • SQL • Git • Cordova • Python

Work Experience

Software Engineer • Monaeo   New York, NY • May 2014-present
- Active role with significant architectural and product decisions for multiple major features
- Worked across the stack on Rails web app and HTML5 hybrid mobile app. Problems solved:
  - Aggregated conflicting and overlapping location data from multiple sources (user input, mobile app, laptop app) into coherent travel data model to feed tax rule algorithms
  - Generalized a powerful configuration system to deliver enterprise customers the customization they need without requiring custom-built features
- Developed a new Angular.js web app consuming Rails APIs
  - Created business intelligence tool to allow enterprise administrators to interact with real-time location data, dynamically aggregating and decomposing data by different queries
- Helped to plan and execute a major overhaul of the existing codebase to improve efficiency and maintainability
  - Achieved over 40% reduction in both number of files and lines of code without disruption of existing functionality
  - Eliminated inconsistent and redundant data storage and improved validations, which solved previous problems with data corruption
  - Raised test coverage from 30-40% to over 90%
- Extended scalability by moving computationally intensive processes from Rails backend to a Go server
- Acted as project manager for several major feature deliveries, coordinating across engineering, product and design teams

Teaching Assistant • App Academy   New York, NY • March 2014-May 2014
- Assisted 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. Only student out of 21 to be offered position
- Curriculum topics included 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

Interests

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