S. Scott **Schupbach**

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WORK HISTORY

Sr. Software Engineer
Aspera, an IBM Company (July 2015 - present)
- ➜ Salvaged non-scalable frontend by utilizing File API to persist large data sets between page loads
- ➜ Re-engineered frontend of analytics project using Angular, nvd3, and a RESTful Rails API server

Web Developer, Owner
Denali Adventure Tours (Summers 2010 - 2015)
- ➜ Designed, built, and maintained tour reservation system with PHP and MySQL (over 5,000 tours booked), including sales report generation and dashboard, as well as user-facing tour information site
- ➜ Recently wrote the foundation to move to a Rails back end, a responsive Backbone.js front end, and a more optimized database with robust ActiveRecord associations
- ➜ Automated online reservations to decrease daily workload and increase off-season sales

Teaching Assistant in Linguistics and ESL
University of California, Santa Barbara (2013 - 2014), University of Montana (2011 - 2013)
- ➜ Researched, designed, and implemented curricula for four ESL courses and collaboratively developed curricula focused on practical application of lecture content for three linguistics courses
- ➜ Received excellent end-of-course evaluations from all classes

PROJECTS

Stargate: Planetary Defense *(JavaScript, HTML5/CSS3)* | live | github
Reimagined classic arcade-style game created with HTML5 Canvas
- ➜ Implemented custom key handler to allow for multiple simultaneous key events
- ➜ Included several difficulty levels and game lengths for variability of game play

PuddleJumper *(Rails, Backbone)* | live | github
Stargate travel search engine, inspired by kayak.com
- ➜ Wrote sophisticated search service for single-hop graph traversal
- ➜ Optimized bandwidth by processing permutations and reassembling the graph on the client side
- ➜ Utilized local storage to save prior search parameters and primary traveler info for future searches

EDUCATION

Coursework towards a PhD Linguistics - *University of California, Santa Barbara*
- ➜ Investigated issues of linguistic complexity from corpus and computational linguistic viewpoints using Python and R to analyze data and visualize results (working paper on Academia.edu)
- ➜ Co-founding member of Wugbot, an extracurricular student group devoted to exploring computational approaches to solving linguistic problems

MA Linguistics - *University of Montana, 2013 (GPA 4.0)*
- ➜ Thesis: The Blackfoot demonstrative system: function, form, and meaning

BA Classics - *Grand Valley State University, 2010 (GPA 3.975)*
- ➜ Recipient of the Department Award, given to one student each year for academic excellence

SKILLS

Core skills: Ruby, Rails, JavaScript, SQL, HTML, CSS/SASS, jQuery, Backbone.js, Angular, D3, git
Varying degrees of experience with: Python, R, PHP, TDD/BDD, RSpec, Jasmine