

# S. Scott Schupbach

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## WORK HISTORY

### Web Developer

*Denali Adventure Tours (Summers 2010 - 2015)*

- Designed and built 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
- Wrote the foundation to move to a Rails back end, a responsive Backbone.js front end, and a more optimized database with more 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

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## 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 front end
- Utilized local storage to save prior search parameters and primary traveler info for future searches

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## EDUCATION

**Web Development Program** - *App Academy, Spring 2015*

- Immersive course with focus on full-stack web development, pair-programming, version control, and agile methodologies
- Strong emphasis on code quality, best practices, common algorithms, and design patterns
- Acceptance rate <5%

**Coursework towards a PhD Linguistics** - *University of California, Santa Barbara (left in good standing)*

- 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

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## SKILLS

**Core skills:** Ruby, Rails, JavaScript, SQL, HTML, CSS/SASS, jQuery, Backbone.js, git

**Also experienced with:** Python, R, PHP, TDD/BDD, RSpec