

# S. Scott Schupbach

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## WORK HISTORY

### Associate Engineer, Global Products

*Avant (July 2017 - present)*

- Aided in refactoring core client-facing app for multi-tenant LaaS (lending-as-a-service) use
- Contributed to moving the core app from Bootstrap to custom internal styles

### Sr. Software Engineer, Analytics front end lead

*Aspera, an IBM Company (July 2015 - July 2017)*

- Architected a new analytics platform consisting of an Angular/D3 UI, a Go/Glow big data processing app, an auto-scaling Redis cluster, and a Rails API server
- Developed the Rails API server which facilitates communication between the various components, queues background jobs, and retrieves processed data from the Redis cluster

### Web Developer, Owner

*Denali Adventure Tours (Summers 2010 - 2015)*

- Designed, built, and maintained complete tour reservation system with PHP and MySQL, including sales report generation and dashboard, as well as user-facing tour information site
- Automated online reservations to decrease daily workload and increase off-season sales

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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
- Coded [vector-based two-dimensional elastic collisions](#) for ship/asteroid interactions ([source](#))
- Included several difficulty levels and game lengths for variability of game play

### Parallax Scroll (jQuery plugin) | [live](#) | [github](#)

*A simple two-tiered scroll with html content and a background image*

- A first attempt at creating a straightforward jQuery plugin with a simple yet flexible API

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## VOLUNTEER WORK

### RailsBridge | [site](#) | [github](#)

*TA, Teacher, Event Organizer, Open-source contributor (May 2015 - present)*

- Wrote algorithm for predicting number of event attendees based on prior attendance
- Taught students foundational concepts of Ruby on Rails apps and frontend design
- Planned, organized, and ran several events at various locations around SF Bay Area

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## SKILLS

**Core languages:** Ruby, JavaScript, SQL, Redis, HTML, CSS, git

**Core frameworks/tools:** Rails, Angular, Backbone, jQuery, D3, Gulp, Jade, Stylus, SASS

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## 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 ([link to working page](#))

### 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