S. Scott **Schupbach**

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WORK HISTORY

Sr. Software Engineer, Analytics project lead
Aspera, an IBM Company (July 2015 - present)
- ➔ Architected a new analytics platform consisting of an Angular/D3 UI, a Scala/Spark 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 of the platform, queues background jobs for the back end, retrieves processed data from the Redis cluster, and serves the Angular front end

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

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

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 previous attendance patterns
- ➔ Taught students foundational concepts of Ruby on Rails apps and frontend design
- ➔ Planned, organized, and ran several events at various locations around SF

SKILLS

Core languages: Ruby, JavaScript, SQL, Redis, HTML, CSS, git
Core frameworks/tools: Rails, Angular, Backbone, jQuery, D3, Grunt, Gulp, Jade, Stylus, SASS
Familiarity with: Python, R, PHP, Scala, Docker, RSpec, Jasmine

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)

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