

JOYCE TIPPING

505-948-7838
joyce@joycetipping.com

WORK EXPERIENCE

Foraker Labs

February – July 2011

Ruby on Rails Apprentice

- Delivered new features on time in a fast-paced environment.
- Maintained codebases written in many versions of Rails 2.3.x and 3.x.
- Deployed fixes to live production applications while on the operations team.
- Worked with a variety of supporting technologies, including PostgreSQL, Coldfusion, and IText.

Socialmedia

October 2010 – January 2011

Front-end Developer

- Created interactive advertisements in HTML5, CSS, and JavaScript.
- Wrote a smooth transition library that utilized variable frame rate animation and mathematical interpolation.
- Interfaced with a large HaXe codebase and cross-browser tested in Chrome, Firefox, Safari, and IE 6, 7, and 8.
- Pioneered a slideshow ad template that increased user engagement.

Veriscape

September – December 2009

Technical Writer

- Developed scripts in an imperative, lexically-scoped domain specific language.
- Used Perl-style regular expressions to extract content from dynamically-retrieved HTML documents.

Mathematical Biology Research Program

Spring and Summer 2008

Statistician

- Collaborated with three biologists, a mathematician, and a computer scientist to model HIV genetic evolution.
- Used R to construct visual models of and compute statistics for the simulation data.

PROJECTS

The Skew-Normal Approximation of the Binomial Distribution

Senior Capstone

- Developed formal mathematical proofs for key properties of the skew-normal distribution.
- Derived the skew-normal approximation of the binomial using the method of moments.
- Used Python, R, and jQuery.flot to generate data sets and graphs demonstrating improved accuracy.

<http://github.com/joycetipping/skew-normal-capstone>

MISC

- Vim enthusiast
- Fluent in Mandarin Chinese
- Bachelor of Science in Mathematics, Truman State University, 3.96/4.00 GPA

*Visit my online portfolio:
joycetipping.com/portfolio*