

Sarah J. Fleming

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Portfolio - <http://www.sajafleming.com/> | Github - <https://github.com/sajafleming>

PROJECTS

Sunset Funset - <http://www.sunsetfunset.com/>

Sunset Funset uses **topographic data** from the USGS to find **sunset viewing locations**. Optimal locations within a user specified area and search radius are determined by finding **local maxima**, filtering them according to potential sunset visibility, **ranking** them using a variety of scores, and returning the final points plotted on a **Google Map** with corresponding pictures from the **Flickr API**. The project is deployed and stores data on **AWS**.
Technologies used: Python (osgeo, scipy, numpy), Javascript, Flask, SQLAlchemy, Google Maps API, Flickr API
AWS EC2 Instance, AWS S3 bucket, Bootstrap, HTML, CSS (<https://github.com/sajafleming/Sunset-Funset>)

TECHNOLOGIES

Languages | Python, SQL, C#, JavaScript (AJAX, JSON), HTML, CSS

Frameworks/Libraries | ASP.NET, Flask, SQLAlchemy, jQuery, Bootstrap, Jinja

Database/Industry Tools | SSRS, AWS, PostgreSQL, Git

Tools/Software | Microsoft Excel, Access, Photoshop

PROFESSIONAL EXPERIENCE

Software Engineer - Data Team

Nov 2016 – present

ClubReady

- Converting ASP pages to .NET MVC with C#
- Developing new data reports and adding them to the UI with C# and Javascript
- Optimizing old and new SQL queries for performance
- Solving reporting bugs
- Using SQL, C#, Javascript, .NET MVC and ASP

Actuarial Analyst

Feb 2015 – Feb 2016

Segal Consulting - San Francisco, CA

- Calculated liabilities and forecasted future expenses for clients' retiree health plans and multiemployer pensions
- Analyzed and visualized client data for an annual report
- Performed actuarial valuations using proprietary software
- Used Excel, Access, VBA, SQL and Fortran

Math Department Intern and Private Tutor

Jan 2012 – Jul 2012

University of Missouri - Columbia, MO

- 100 hours of assisting math teachers in the Columbia Public School District
- Tutored high school math, college algebra, pre-calculus and calculus students

EDUCATION

Software Engineer Fellowship

June 2016

Hackbright Academy - San Francisco, CA

Completed intensive 12-week fellowship covering topics including Python, Javascript, SQL, and computer science fundamentals.

Bachelor of Science, Mathematics

June 2014

University of Missouri - Columbia, MO

Emphasis in Actuarial Science and Mathematical Finance

ACTUARIAL EXAMS AND COURSES

- Passed Exams P (Probability) and FM (Financial Mathematics)
- VEE Applied Statistics Course - Regression and Time Series