

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, JavaScript (AJAX, JSON), SQL, HTML, CSS

Frameworks/Libraries | Flask, SQLAlchemy, jQuery, Bootstrap, Jinja

Database/Industry Tools | PostgreSQL, Git

Tools/Software | Microsoft Excel, Access, Photoshop

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

PROFESSIONAL EXPERIENCE

Actuarial Analyst

Feb 2015 – Feb 2016

Segal Consulting - San Francisco, CA

- Calculated liabilities and forecasted future expenses for client's retiree health plans and multiemployer pensions
- Used Excel, Access, VBA, and SQL to analyze and visualize client data
- Performed actuarial valuations using proprietary software

Mathematics Tutor

Sep 2012 – May 2014

University of Missouri - Columbia, MO

- Private tutor for ACT, college algebra, pre-calculus and calculus students
- Reinforced my knowledge of these courses by explaining the material to others

Math Department Intern

Jan 2012 – Jul 2012

University of Missouri - Columbia, MO

- 100 hours of assisting math teachers in the Columbia Public School District
- Tutored all levels of high school math, assisted in class preparation, wrote and graded quizzes and tests

ACTUARIAL EXAMS AND COURSES

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