FRANCINE STEPHENS

DATA SCIENTIST | DATA VISUALIZATION AND GIS SPECIALIST

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SUMMARY OF QUALIFICATIONS

- Broadly skilled data professional with 5 years of experience writing code in R and Python to design tables, maps, and graphs that convey insights from structured and unstructured datasets.
- Earned social science Ph.D. focused on statistics and data visualization while working 2 full time jobs on small data science teams.
- Diverse experience collaborating in cross-functional environments to distill data into visualizations that drive decision-making.
- Presented data visualizations and slide decks to stakeholders across all organizational levels in corporations and not-for-profits.

SKILLS

- **PROGRAMMING LANGUAGES**: R | Python | SQL | HTML/CSS.
- **DATA VISUALIZATION TOOLS:** Tableau | Shiny | Plotly | Leaflet | ESRI ArcGIS Desktop & Online | Adobe Creative Suite.
- **ANALYSIS TECHNIQUES:** Data Mining | Statistics | Regression | Machine Learning | GIS | Natural Language Processing.
- **OTHER TOOLS:** GitHub/Lab | AWS | Command Line | Agile | Asana | Jira.
- **DATA TYPES:** GPS | Satellite Imagery | Mobile & Communications | Websites & Social Media | Text Files | Surveys.

RELEVANT EXPERIENCE

Research Scientist | Intuit   06/2021 – 05/2022

- Imported, cleaned, analyzed, and visualized Slack, email, Zoom data from 13.5K employees to identify trends in communication overload for a presentation to HR business partners and senior leadership.
- Introduced and presented 3 new data visualization styles to bi-annual talent development report that helped C-suite level executives better understand manager capacity and development.
- Developed program in R to web scrape, analyze, and visualize insights from online employee reviews at Intuit and 5 competitors that has enriched the team's employee listening program with competitive intelligence.
- Led 5-person team in establishing process for sentiment analysis and visualization of survey comment data for 3 executive reports.
- Conducted monthly data storytelling training sessions with demonstrations on data visualization techniques for 7 junior analysts.

GIS/Spatial Data Analyst | Texas Democratic Party   08/2020 – 12/2020

- Produced interactive map layers in ArcGIS Online of results from polling place accessibility analyses and site suitability models in 30 critical counties to inform voter protection team's advocacy strategy.
- Liaised with 12-member voter protection team to identify trends in voter foot-traffic and develop 2 data driven allocation models for poll watcher assignments that replaced existing manual assignment process.
- Designed all thematic maps of election results in post-election retrospective memo for state party leaders using R and ArcGIS Map.
- Solicited input on map and chart design from data and voter protection teams and incorporated feedback to improve visual products.

ADDITIONAL EXPERIENCE

Ph.D. Researcher | Stanford University   06/2018 – 08/2023

- Adapted social network analysis algorithms and visualization techniques to a geographic dataset of 200 million trips to city parks, which resulted in a paper with a novel approach to understanding park service area operations.
- Created interactive digital story map of demographic trends in San Francisco's Excelsior neighborhood that has garnered 6.7K views.
- Experimented with combining topic modelling and spatial analysis on a dataset of 20K Airbnb listings to detect racial differences in neighborhood marketing strategies, which earned an award for Outstanding Natural Language Processing Paper.

Graduate Instructor, Statistics & GIS Specialist | Stanford University   06/2019 – 12/2022

- Served as statistics and GIS subject matter expert and provided weekly training in multivariate statistics and GIS for 5 classes of 25 to 60 students.
- Designed a website with 10 tutorials on creating interactive web-maps that contributed to a 30% increase in course satisfaction.
- Received high ratings (4+ out of 5) on quarterly performance evaluations and earned Cilker Award for Teaching Excellence.

EDUCATION

Ph.D. Sociology | Stanford University   08/2023

B.A. Sociology – Quantitative Methods | University of Pennsylvania   05/2017
Honors: *summa cum laude;* Phi Beta Kappa; Benjamin Franklin Scholar.