Shayna Gaulden

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Work Experience

San Jose State University Foundation @ NASA

Research Intern
San Jose, CA | Jan 2023 – Current

Developed a web application demo for trajectory negotiation, leveraging React JS for the frontend and Flask Python for the backend API. Conducted research to extend trajectory negotiation to multiparty scenarios.

Flex Interconnect Technologies

Solution Provider
Milpitas, CA | Feb 2020 – April 2021

Designed experiments with industry professionals and supervise progress on the manufacturing floor. Analyze results in R to support data driven decisions that resulting in improvements to 3 different product processes. Presented 2-hour PowerPoints for LEAN manufacturing training.

Menlo Security

Manual Quality Assurance Tester
Palo Alto, CA | Aug 2017 – Aug 2019

Tested frontend of analytics feature from creation to launch reporting around 200 issues. Cooperated with developers one-on-one and in team settings to resolve over 500 bugs.

Project Experience

Multi-Label Emotion Detection from Text

Python & Matlab
May 2023 | SJSU Masters Research Project

Employed machine-learning methods and evaluation metrics for multi-label classification on a large dataset of Reddit comments. Findings highlight the effectiveness of transformer models and emphasize the significance of utilizing appropriate evaluation metrics.

Google Play Store App Analysis

Matlab
May 2022 | SJSU Project

Conducted an exploratory data visualization project on the Google Play App Store, applying dimension reduction techniques to identify distinct groupings among games.

Evolution of Social Networks in Space and Time

Python
May 2021 | NSF PUMP Project

Research project sponsored by NSF PUMP program. Developed a program to visualize population graphs, analyzing birth-death processes to observe evolution across multiple generations.

Education

San Jose State University

MS in Data Science
San Jose, CA | May 2023

Relevant Courses: Web Intelligence, Cluster Analysis, Data Visualization, Statistical & Machine Learning Classification, Intro to Artificial Intelligence, Regression Theory, Intro to Database Management Systems, NoSQL

San Jose State University

BS in Applied Mathematics (Statistics)
San Jose, CA | May 2021

Relevant Courses: Data Structures & Algorithms, Mathematical Statistics, Python and SQL, Probability Theory, R Programming, Math Modeling, Numerical Analysis for Scientific Computations

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Technical Skills

Programming Languages — Python, MATLAB, R, Java, HTML, SQL

Frameworks and Libraries — NumPy, Pandas, Matplotlib, Scikit-Learn, PyTorch, React, Flask, Python-SocketIO

Analytical Techniques — Data Visualization, Machine Learning, Regression, Clustering, Natural Language Processing, Probability theory, Statistics, Data Preprocessing, Model Evaluation and Validation