

Peter Shamoun



San Diego, CA

EDUCATION

University of California, San Diego

Bachelor of Science in Data Science

San Diego, CA

Expected: June 2026

Relevant Coursework:

- Data Structures and Algorithms, Programming and Data Structures, Practice and Application of Data Science, Statistical Modeling, Theoretical Foundations of Data Science, Principles of Data Science

EXPERIENCE

Data Analyst Intern

Jun 2024 - Sep 2024

Nexon America

Los Angeles

- Developed complex SQL queries across **10+** tables to extract key metrics on payments, interactions, and login behaviors.
- Delivered multiple Tableau dashboards to the marketing team to serve as an internal tool enabling data-driven decisions on marketing spend based on user value.
- Presented the tool to both technical and non-technical teams, with the work being featured in a company-wide newsletter.

Research Assistant

Jan 2024 - Jun 2024

San Diego SuperComputer Center

San Diego

- Created a comprehensive database with SQLite, housing **150,000** matrices for extensive research.
- Designed and implemented a high-accuracy neural network with Keras TensorFlow in order to predict the error caused by matrix compression with up to **95%** accuracy.
- Visualized findings using Matplotlib to show the model's ability to predict truncation errors within matrices.

Software Engineer

Feb 2024 - Apr 2024

STEMz Learning

San Diego

- Refactored a recommendation system, providing users with curated suggestions based on their browsing history. Increasing accuracy by **60%**
- Implemented a back end framework that reduced website response time by **30%** handling over **1000** HTTP requests per day.
- Implemented Firebase authentication to enhance user authentication speed by **25%** and integrated MFA in React.

PROJECTS

- **Ensemble CNN Image Classifier** | *Python, TensorFlow, React* Apr. 2024
 - * Developed and trained an ensemble of Convolutional Neural Networks for image classification.
 - * Implemented image preprocessing pipelines in PIL, including dynamic resizing and normalization.
 - * Deployed the model as a RESTful API using React, allowing for real-time image classification requests.
- **Tripadvisor Sentiment Analysis** | *Python, Pandas, Keras TensorFlow, Flask* Aug. 2023
 - * Utilized natural language preprocessing of reviews with advanced tokenization and data cleaning.
 - * Developed a TensorFlow/Keras neural network for rating classification, achieving 50% improved prediction accuracy with sklearn metrics and Matplotlib visualization.
 - * Implemented a responsive Flask front-end for real-time user interaction.
- **CAASP Scores vs. Economic Factors Data Analysis** | *Python, SQL, Pandas, R* Dec. 2023
 - * Conducted a comprehensive data scraping analysis project to gather CAASP scores by school district using BeautifulSoup and Pandas.
 - * Analyzed test scores and socioeconomic factors with dataframe manipulation and querying.
 - * Implemented interactive choropleth maps to illustrate the relationship between income levels test scores.

TECHNICAL SKILLS

Languages: Python, SQL, Java, R, MATLAB, JavaScript

Certifications: Machine Learning Specialization by DeepLearning.AI and Stanford University

Tools: Snowflake, Amazon AWS, Microsoft Office, Tableau

Libraries: Pandas, Beautiful Soup, Tensorflow, Plotly, sci-kit learn