Scot Carpenter

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LinkedIn | Portfolio

EDUCATION

University of Arizona | Bachelor of Applied Science: Applied Computing | AI and Data Science Emphasis | Exp Fall 2025

- Coursework: Data Engineering, Data Mining and Discovery, Data Science, Data Analysis and Visualization, Statistics, Analysis of Discrete Structures, and Artificial Intelligence.
- Tau Sigma Honor Society, Dean's List with Distinction

SKILLS

Coding Languages: SQL, Python, R
Libraries/Tools: Jupyter Notebook, R Studio, Pandas, Matplotlib, SciKit-Learn, Tidyverse, and ggplot
Analytics: Data cleaning, feature engineering, statistical modeling, data analysis, data visualization and presentation

EXPERIENCE

The Global Career Accelerator | *SQL & Python Trainee* | Remote May 2025 - Present

- Analyzed real-world datasets in Jupyter Notebook, producing actionable insights and recommendations.
- Communicated data analysis results verbally, in writing, and by creating visualizations in Plotly and Matplotlib.
- Examined user behavior across various industries and scenarios, identifying key trends and patterns.
- Collaborated with a diverse global team to complete tasks and deliver timely and accurate projects.

Walnut Street Coffee | *General Manager* | Edmonds, Washington May 2017 - August 2023

- Managed and collaborated with a diverse team in a fast-paced environment to provide exceptional service.
- Conducted payroll and bookkeeping to maintain sales records and annual reports.
- Collaborated with teams from other local businesses to drive engagement and build community.
- Exhibited strong problem-solving skills by maintaining stock and inventory during global supply chain disruptions.
- Ensured positive customer experiences through resolving customer complaints and concerns in a swift and professional manner.

PROJECTS

Worth a Shot? NBA Shot Analysis Completed December 2025

- Utilized R and R Markdown to analyze shot position data for every field goal attempt made in the NBA between the 2003 to 2024 season with a focus on changes in shot selection.
- Analysis of scoring trends revealed that the mean points per game since the NBA lockout has increased by 22% and the mean points scored by 3-point field goals have increased by 102%.
- Derived league wide field goal percentage per range and orientation from basket to calculate expected values for points scored, revealing that 3-point field goals have higher scoring potential at lower likelihoods of success than 2-point field goals with greater likelihoods of success.
- Communicated data-driven shot selection recommendations and performance insights using data visualizations.

Product Waste Reduction Completed December 2025

- Aggregated sales data from Square, Toast, and vendor invoices to provide recommendations to reduce product waste and increase sales efficiency for local business.
- Calculated break-even points and suggested price points to match profit margin expectation for each product.

- Derived expected values for products taking into consideration seasonality and day of the week to provide inventory recommendations that reduced product waste by 25% and increased profit 10% daily.