

JON SCHEAFFER

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LOOKING FOR FULL TIME POSITION

A Software Engineer equipped with a Master of Science in the Quantitative Economics Program. As a productive team member, I have hands-on experience in collecting and analyzing data, specializing in leveraging causal inference and machine learning to innovate and improve company efficiency. As an avid reader and lifelong learner, I am personally invested in discovering truth through the analysis of data. I do not simply look at patterns in data indifferently but go beyond these patterns to discern the causes of the phenomenon.

WORK EXPERIENCE

Software Engineer | Patmos

1/8/2024 - Present

- Built custom Retrieval Augmented Generation LLM prototypes for clients, running locally on our machines in Kansas.
- Conducted benchmark tests comparing speeds of different GPUs on deep learning tasks and created a report of findings showing the importance of ventilation in machine setup.
- Helped develop an account page for the Patmos Website using Spring Boot and Keycloak written in Java.

Data Analyst | JAC AG Services

5/2023 - 10/2023

- Conducted an analysis of Advanced Metering Infrastructure data to assess the impact of filling recharge ponds on groundwater levels.
- Using data mining techniques, I imported the data, cleaned it, and then calculated the effect with time series analysis.
- Demonstrated that a 6-foot increase in groundwater levels was a direct result of the recharge pond's implementation.
- Gave a presentation and report of my findings to the Yolo Water District, effectively conveying the positive environmental impact of the recharge pond.

Graduate Research Consultant | IFC

1/9/2023 - 6/16/2023

- Evaluated the impact of agricultural training programs for small-holder farmers in India to help the IFC target the right farmers.
- Collaborated with IFC/World Bank, often working in a fast-paced environment with limited guidance, to support the IFC's goals.
- Cleaned and analyzed both quantitative and qualitative data from the IFC's AWS database. Created compelling visualizations, maps, and dashboard applications.
- Implemented Geospatial Analysis to complement survey data provided by the IFC. Determined the distance to the closest town from each farm.
- Utilized advanced statistical analysis to demonstrate that the adoption of sustainable practices reduced farmers' overall costs.
- Effectively presented our results to key stakeholders at the IFC and World Bank.

Assistant Economic Researcher | AgIS Capital

6/1/2021 - 9/30/2021

- Compiled data on AgIS' Agricultural Portfolio and built relationships with nonprofit boards in California.
- Read through and interpret the different industry related technical procedures and regulations provided to me by the boards.
- Applied VBA and functions in Excel for data validation and forecasting future bearing acreage, yield, and production.
- Developed fact sheets, reports, and compelling visualizations for V.P. of Acquisitions and Strategy to use in board meetings

EDUCATION

Master of Science in Quantitative Economics | GPA 3.97 | Cal Poly | San Luis Obispo, CA 8/2022 - 6/2023

Graduated with Distinction (Top 10% of my class)

Certificate in Data Analytics | UC Davis | Davis, CA 6/2021 - 12/2021

https://www.credly.com/badges/f1422eb5-085e-4843-b98b-9d76fd903e7d/public_url

Bachelor's degree in Liberal Arts | Thomas Aquinas College | Santa Paula, CA 8/2017 - 5/2021

Senior Thesis: "Limits and Loci: On the Role of Motion in the Definitions of Curved Lines"

Skills

Analytical Skills: Python, R, MS Office, SQL, NoSQL, Tableau, Advanced Statistics, and Machine Learning

Soft Skills: Big picture thinking, Teamwork, Leadership, and work ethic

Accolades and Hobbies: Eagle Scout, Presidential Volunteer Service Award Recipient, and Black Belt in Taekwondo

DATA PROJECTS

Modeling Student Transportation Decisions: 11/11/2023

https://j-schea29.github.io/Commuter_Choices.html

- Analyzed consumer demand for bus transportation among a dataset of 1000 students who commute to campus by driving, walking, biking, or taking the bus.
- Utilized Multinomial Logit modeling to represent each student's choice between various modes of travel based on individual utility.
- Discovered that a 20% reduction in bus travel time led to a substantial 13.6% decrease in the number of cars on the road.
- Uncovered an inverse relationship between income levels and bus ridership, underscoring the importance of targeted advertising to engage lower-income students.

Web Scraping Challenge 9/27/2021

GitHub: www.github.com/J-Schea29/web-scraping-challenge

- Scraped data related to the planet Mars from NASA and other websites. This data includes the title and descriptive paragraph for the most recent news article, a featured image, a table of facts on Mars, and four hemisphere images of Mars.
- Using flask, I displayed all of this on a webpage and included a button to scrape the most recent data.

For more projects and writing samples check out my projects page on my website!

<https://j-schea29.github.io/Projects.html>