

JONATHAN PAPIR

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A seasoned math teacher, who can communicate complex ideas to technical and non-technical people alike. I possess a superb capacity for problem solving, an extremely high level of comfort with statistical concepts, and am looking for my first job as a data analyst. I've devoted three years of free time to become proficient in the technical aspects of the field, through courses and self-learning, and leveraged these skills to produce personal projects. Please look at [my portfolio](#) to see what I'm capable of doing.

EXPERIENCE

SEPT 2016 – PRESENT: MATH TEACHER, FUSION ACADEMY – LOS GATOS, CA

- Instructs students in a one-on-one learning environment focusing on developing strong quantitative analysis skills.
- Delivers content to non-technical audiences that relate difficult ideas in a clear and easy to understand manner.
- Pioneered the use of iPad technology in the classroom and lead the transition to its adoption by the entire math department.
- Produced over fifty testing and homework resources that are used by the math department.
- Praised in every yearly review as having excellent (highest rating given) content knowledge.
- Recognized in over 90% of quarterly reviews for delivering high-level lessons that are concise and easy to digest.

SEPT 2011 – SEPT 2016: REPORTING ANALYST/DISPATCHER, UNDERGROUND COMMUNICATIONS – SAN JOSE, CA

- Wrote over 500 daily and monthly reports in Microsoft Excel summarizing property damage in over 30 regions.
- Maintained the lowest error rate among all employees in the company.
- Consistently met every reporting deadline.
- Monitored radio and computer aided display systems of Bay Area fire departments, for reports of fire/flood damage.
- Dispatched fire/flood chasers to the scene of an incident, upon confirmation of property damage.
- Wrote a script that restarted listening stations automatically, which reduced the rate of missed leads by over 10% per month.

MAY 2006 – PRESENT: PRIVATE TUTORING, SELF-EMPLOYED – SAN JOSE, CA

- Provided support for students with emphasis on improving problem solving skills.
- Nurtured relationships with customers to facilitate educational growth and customer satisfaction.
- Maintained online marketing presence to capture new clients.
- Hundreds of satisfied customers consistently emphasizing their children's renewed interest in math.
- Received dozens of word of mouth recommendations such that an online marketing presence is now rarely needed.

PROJECTS

REDDIT ACCOUNTING SURVEY ANALYSIS – My wife was transitioning to accounting and wanted to know what she could do to increase her long-term salary potential. To help, I performed an exploratory data analysis (EDA) on data from Reddit using Jupyter notebooks. I used Pandas/NumPy to clean the data, Matplotlib/Seaborn to visualize it, and Sklearn/Statsmodels to build regression models. We identified the two largest factors and my wife was able to tailor her job search accordingly. ([Accounting Analysis](#))

REDDIT ACCOUNTING TABLEAU STORY – While analyzing data from the accounting EDA, I noticed signs of a pay gap between male and female accountants. This project is a Tableau story with visualizations that help expose the difference. ([US Accounting Viz](#))

ETL CRAIGSLIST (CL) WEB SCRAPER – An extract/transform/load tool, written in Python, to get data on my competition as a math tutor. Tutoring prices from the services section of CL were *extracted* using Requests, BeautifulSoup, and Regex, then *transformed* using Pandas/NumPy, and lastly *loaded* into a local PostgreSQL database using Psycopg2. ([Craigslist Web Scraper](#))

CRAIGSLIST EXPLORATORY DATA ANALYSIS – Using SQL to query the data collected from the ETL CL web scraper, I visualize tutoring prices across various geographic segments using Plotly Express and Matplotlib. Based on the results, I was able to raise my hourly rate and still remain competitive, realizing an increase in revenue of nearly 25%. ([Craigslist EDA](#))

TELEVISION (TV) AD CAMPAIGN REPORT – A Python data pipeline, built to automate the process of cleaning advertising data from Excel files, calculating key metrics, and generating summary reports. I present the findings of one report in a PowerPoint presentation that details the most cost-efficient TV networks for ad spend and gives recommendations for future spending. ([Ad Campaign Report](#))

SCHOLARLY ARTICLE ANALYSIS – Utilized SciPy, Statsmodels, and Pandas to perform A/B testing, confidence interval analysis, and linear regression modeling to understand acupuncture treatments and their effect on hypertension. ([Acupuncture Analysis](#))

POKÉMON LEGENDARY CLASSIFIER – K-nearest neighbor and logistic regression models I built to predict whether a Pokémon is legendary. The models were trained on Pokémon from generation 1-6 and tested on generations 7 and 8. Both models achieved 90%+ accuracy, despite imbalanced classes. ([Pokémon Classifier](#))

SQL QUERIES – Queries I wrote to practice solving common business problems using joins, window functions, subqueries, common table expressions, and more, performed in MySQL and PostgreSQL databases, including documentation of my logic. ([SQL Queries](#))

EDUCATION

B.S. BUSINESS ADMINISTRATION, INTERNATIONAL BUSINESS: SAN JOSE STATE UNIVERSITY, MAY 2011

COURSES/CERTIFICATIONS

SQL INTERMEDIATE - CERTIFICATION, HACKERRANK, MARCH 2022

THE ULTIMATE MYSQL BOOTCAMP: GO FROM SQL BEGINNER TO EXPERT - CERTIFICATION, UDEMY, JAN 2021

CIS 107 – DATA SCIENCE, SAN JOSE CITY COLLEGE, DEC 2020

CIT 134A – PROGRAMMING IN PYTHON, EVERGREEN VALLEY COLLEGE, MAY 2020

INTRODUCTION TO COMPUTATIONAL THINKING AND DATA SCIENCE - CERTIFICATION, EDX, MAY 2020

INTRODUCTION TO COMPUTER SCIENCE AND PROGRAMMING USING PYTHON - CERTIFICATION, EDX, FEB 2020

LEARNING PYTHON FOR DATA ANALYSIS AND VISUALIZATION - CERTIFICATION, UDEMY, DEC 2019

References available upon request.