

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/scientist. 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 GitHub](#) to see what I'm capable of doing.

EXPERIENCE

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

- Instructed hundreds of students in a one-on-one learning environment focusing on developing strong quantitative analysis skills.
- Delivered content to non-technical audiences that related 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.
- Recognized in every yearly review as having excellent (highest rating given) content knowledge.
- Praised 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 thousands of 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 for all five years of employment.
- Consistently met every reporting deadline for all five years of employment.
- 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 – An exploratory data analysis (EDA) of the profession my wife was entering. Using Python Jupyter notebooks, data from a survey on r/accounting was cleaned with Pandas/NumPy, visualized using Matplotlib/Seaborn, and several regression models were built to predict salary using SciPy/Sklearn/Statsmodels ([accounting_analysis](#)).

REDDIT ACCOUNTING TABLEAU STORY – A Tableau story using the cleaned data from the accounting EDA. Utilizing dashboards, I present evidence of salary differences among male and female accountants ([US Accounting Viz](#)).

ETL CRAIGSLIST (CL) WEB SCRAPER – An extract/transform/load tool, written in Python, to understand 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 for analysis ([craigslist_web_scraper](#)).

TELEVISION (TV) AD CAMPAIGN REPORT – A Python data pipeline, which automates the process of cleaning TV advertising data from Excel files, calculating key metrics, and generating summary reports. The findings of one such report are presented in PowerPoint regarding the most cost-efficient TV networks for ad spend. Future recommendations for spending are given ([ad_campaign_report](#)).

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

POKÉMON LEGENDARY CLASSIFIER – Classification algorithms to predict whether a Pokémon is legendary. K-nearest neighbor and logistic regression models were trained on Pokémon from generation 1-6 and tested on generation 7 ([pokemon_classification](#)).

■ **SQL QUERIES** – Queries to practice solving common business problems using joins, window functions, subqueries, common table expressions, and more, performed in MySQL and PostgreSQL databases ([stratascratch_SQL_puzzles](#) / [advanced_sql_puzzles](#)).

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