

Patrick Salisbury

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EDUCATION

University of California, San Diego | B.S. Data Science (GPA: 3.5) *La Jolla, CA / Expected 2024*

- Data Management, Intro to Machine Learning, Applications of Data Science, Data Analysis & Inference, Business Analytics

De Anza College | A.S. Computer Science (GPA: 3.9)

Cupertino, CA / 2018 - 2021

- Data Science Fundamentals, Data Structures & Algorithms, Object Oriented Analysis and Design

Certifications

- [IBM Data Engineering](#) (Coursera) - MySQL, PostgreSQL, IBM DB2, Apache Spark Present
- [Google Data Analytics](#) (Coursera) - SQL, Tableau, R February 2022

TECHNICAL SKILLS

Languages & Softwares: Python, SQL, Tableau, Power BI, Java, Microsoft Excel

DBMS / Cloud Technologies: IBM DB2, MySQL, PostgreSQL, SQLite3, Amazon Redshift, Microsoft Azure, AWS

Libraries / Frameworks: Pandas, SkLearn, Apache Spark, PySpark, SciPy, Plotly, Seaborn

Developer Tools: Git Version Control, Pycharm, Visual Studio Code, Jupyter Notebooks, Databricks

EXPERIENCE

Data Science Intern June 2022 - September 2022

HM Electronics *Carlsbad, CA*

- Analyzed customers device data improving the quality of production and customer relationships by showcasing areas of concern.
- Led sprint presentations to showcase findings using Python, SQL, and Power BI to influence the decision-making of the product managers and software engineers.
- Collected semi-structured console log data from 100+ customer devices to ingest into a Azure Blob Data Lake.
- Automated the ETL process on 30+ million raw records of data at once using Apache Spark on Databricks(Microsoft Azure).
- Predicted customer device failure using Classification and Clustering ML models to isolate variable indicators for tech support.

Computer Science Coach February 2023 - Present

TheCoderSchool *Encinitas, CA*

- Coached an average of 5 students per week ranging from Elementary to High School within the topics of computer science.
- Designed personalized curriculum including projects to support individuals from different backgrounds and experience.
- Supported the development of apps in Python and Scratch over a 4-6 week timeframe while simultaneously teaching the fundamentals of coding.

Mathematics Tutor August 2019 - April 2021

De Anza College *Cupertino, CA*

- Instructed mathematical subjects, such as Precalculus, Calculus, Differential Equations, and Linear Algebra to college students.
- Administered individual study sessions and group workshops, ranging from 5-10 people at once.
- Maximized individual tutee's test results up to the 90%+ range and increased rates of passing by more than 50%.

PROJECTS

Popular Youtube Video Titles Generator Present

- Utilized Youtube APIs to analyze recent top 50 trending videos and predict a new possible trending video title.
- Established an ETL pipeline to populate an SQLite database after processing words using Pandas and NLTK.
- Generated possible trending video titles using sentence linguistics, unigram NLP models, and N-gram NLP models.

Recipe Ratings Analysis and Predictor February 2023

- Analyzed 234,429 different recipe reviews given on Food.com to discover underlying associations and trends regarding rating.
- Concluded statistically significant results using hypothesis testing and after performing exploratory data analysis.
- Developed a Decision Tree model using CV grid search for hyperparameter tuning after testing models using SKLearn pipelines.

Best Companies to Work For Analysis July 2021

- Showcased the top 500 best companies to work for in 2021 according to Forbes.com using Python and SQL.
- Extracted and transformed data using web-scraping and data processing to store into an SQLite3 database.
- Showcased the top 500 best companies to work for by utilizing embedded-SQL queries and Matplotlib.