Sean Sanchez

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Education

B.S. Data Science, University of San Francisco | 2022

- Relevant coursework: Data Science with R, Machine Learning, Statistics with Applications, Linear Regression, Data Visualization with D3, Data Structures and Algorithms, Database Systems with SQL, Object-Oriented Programming with Python and Java

Technical Skills and Tools

- R, SQL, Python, Java, JSON, Excel, Jupyter Notebook, GitHub, IntelliJ IDEA, Keras, Tensorflow, Google Cloud SDK, D3, HTML

Work Experience

Data Engineering & Analysis Intern, Pathloom | Aug 2021 – Nov 2021
- Cleaned and analyzed hiking trail data, including geometry data, for database processing using Python
- Built and imported fully-structured databases on AWS for use by software and product development teams

Spare Parts Coordinator, Vanderlande Industries (LAX) | May 2017 – Oct 2018
- Managed the inventory and purchasing of spare parts for Tom Bradley International Airport's baggage and jet bridge system
- Streamlined processes for recurring and ad hoc inventory data requests by creating reporting dashboards using Excel and enterprise asset management software (EAM)
- Standardized and implemented an inventory object coding scheme in collaboration with corporate EAM Business Analysts

Parts Manager, Elite Line Services (LAX) | Jul 2014 – May 2017
- Provided visibility and transparency into company spending through regular data analysis on usage of parts and assets
- Ran and published weekly spare parts cycle count reports to the facilities management team to ensure healthy inventory stock

Relevant Projects

Reviewing Pitchfork Music Reviews | Data Visualization
- Analyzed Pitchfork music reviews and built custom data visualizations in D3
- Built a website to showcase the data visualizations and insights using D3, HTML, and CSS

Counting Cells in Microscopy Images | Statistical Learning
- Built a U-Net convolutional neural network using Python, Keras, Tensorflow, and Google Colaboratory
- Applied the deep learning neural network to biomedical image segmentation

Binary Classification of Breast Cancer Presence | Statistical Learning
- Built a logistic regression model from scratch using fundamental machine learning algorithms
- Trained the model to predict the presence of breast cancer in an individual based on a set of health indicators

Genome Analyzer | Object-Oriented Programming
- Created an objected-oriented program that analyzes and detects specific sequences in DNA genomes
- Implemented object inheritance and polymorphism to identify genome sequence patterns

Lexer-Parser | Object-Oriented Programming
- Built a lexical analyzer that identifies and creates character tokens for simple text processing and manipulation
- Utilized lexer tokens for a parser program to determine the validity of order and syntax of text input streams