

Janet Lin

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Education

University of California San Diego

San Diego, CA

BACHELOR OF SCIENCE(B.S.) IN DATA SCIENCE

Sept. 2020 - Jun. 2023

- Relevant Coursework: Machine Learning, Image Processing, Signal Processing, NLP, Database Design and Architecture, Data Science Foundations and Principles, Big Data, Data Analysis, Data Visualizations, Statistics

Cosumnes River College

Sacramento, CA

ASSOCIATE OF SCIENCE(A.S.) IN COMPUTER SCIENCE

Sept. 2016 - May 2020

- Relevant Coursework: Object-Oriented Programming, Data Structures, Assembly Language, Computer Information Systems, Web Development, Discrete Mathematics, Calculus for Science and Engineering, Linear Algebra

Projects

Autonomous Racing Car Project

DATA ENGINEER, LINUX, ROS(ROBOTIC OPERATING SYSTEM) & PYTHON DEVELOPER

- Led in the development and launch of robotic AI recognition and software architectures, within the four-month deadline
- Built Docker Image focus on customized Livox HAP Lidar deployment onto the vehicle, such as installations, ROS framework and Python packages
- Conducted data collection and processing, including establishing ROS pipeline to retrieve point-cloud data, performed data cleaning, data validation and transformation, and error handling to improve data accuracy and reliability
- Implemented point-cloud labeling and clustering algorithms onto transformed data for cone detection and object classification

User Interface Application Prediction

DATA ENGINEER, C DEVELOPER

- Collaborated with data engineers to implement a C-based data collection algorithm, capturing user mouse movements based on position
- Designed and implemented a robust data architecture, performing data cleaning and validation processes. Identified and eliminated outliers and noise in the data, parsing the cleaned data into the database
- Conducted exploratory data visualization using Python, applied time series analysis to discover patterns and trends in user application usage data
- Assisted in integrating the application prediction system into the user's operating system to provide real-time recommendations

S&P 500 Stock Market Performance Forecast

MACHINE LEARNING ENGINEER, PYTHON DEVELOPER

- Assisted in building predictive machine learning model based on mathematical models, computational methods, and quantitative analysis of the S&P 500 stock market behavior in 2020
- Applied time series LSTM computation to impute missingness and forecast stock market trends and behaviors
- Developed interactive data visualizations using D3, HTML, JavaScript, and CSS to present the historical trends and forecast

Work Experience

ASML

San Diego, CA

DATA SCIENCE INTERN

Jun. 2022 - Sep. 2022

- Collaborated with the technical leads on establishing automated pipelines for data collection process
- Performed pipelines integration in python, promoting a multi-functional pipelines to save over 10 hours per week in data processing time
- Assisted with data management tasks such as code refactoring, data cleaning, data extraction and processing using SQL and python
- Designed interactive data visualizations dashboards using TIBCO Spotfire to showcase complex laser data summary and analysis

California State Department of General Services

Sacramento, CA

ADMINISTRATIVE STUDENT ASSISTANT

Jun. 2019 - Jun.2022

- Assisted with file room office duties, such as data entry, data cleaning, and database management using Microsoft Office applications
- Provided technical support on the procedure of California State government procurement processes in supporting the development of new policies
- Led on coordinating weekly cross-team meetings on identifying up-coming tasks and urgent projects to ensure organized project management
- Developed training materials and standard operating procedures for procurement data management and analysis for management teams

Skills

Libraries

Pandas, Numpy, Sci-kit learn, Matplotlib, Seaborn, Tensor-flow, Pytorch

Machine Learning

Regressions, Clustering, Classifications, Signal Processing, NLP, Image Processing

Programming Language

Python, Java, Linux, SQL, C++, JavaScript, C

Software Engineering

Dynamic Programming, Object-oriented Programming, Project management, Code Refactoring, ROS

Statistics

A/B Testing, Hypothesis Testing, Bootstrap, Permutation Testing

Software

Spark, MySQL, PostgreSQL, Microsoft SQL Server, MS Office Suites, Tibco, Tabular, Jupyter Notebook