JEREMY XU

DATA/SOFTWARE ENGINEER

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SKILLS

Programming languages:
Python, R, Java, Javascript, Bash

Database Modeling:
SQL, NoSQL, MongoDB

Database Warehousing:
BigQuery

Data analysis/ visualization:
Pandas, NumPy, Apache Spark, Tableau, Data Studio, Power BI

Other tools/ frameworks:
Apache Airflow, Docker, Apache Nifi, Git, Github, Linux, Cloudflare, Flutter, Dart

Web development:
HTML, CSS, Node.js, Express, React, Tailwind

Cloud Platform:
Google Cloud Platform (GCP), Microsoft Azure

Hard Skills:
SFTP, API, ETL pipelines, automation, data modeling, database design, data analysis, data mining

EXPERIENCE

ILLUMINATION FOUNDATION

Principal Data/Software Engineer | January 2023 – Present

- Collaborated with various departments to optimize and streamline data entry and data collection, collectively saving 60+ hours / week on data entry.
- Utilized APIs to connect various data sources and systems to collect and mine data for data analysis.
- Managed and worked with web developers to design and develop web application using the MERN stack.
- Communicated with internal stakeholders to design and implement application functionalities.
- Built and integrated several databases and data pipelines for several departments such as finance, human resources, operations, and logistics.
- Facilitated the process of moving on-premise programs to more cloud based solutions

Senior Data Engineer | December 2021 – December 2022

- Designed database infrastructure and created database schemas using DW/BI standards and guidelines.
- Evaluated and compared data sets for quality and accuracy to provide clean data used for analysis.
- Developed algorithms to integrate similar datasets across multiple data sources to bridge the gap between different systems.
- Organized and managed the data team and provided technical training and guidance to team members.
- Provided technical inputs for the design of the development of a custom built EMR as well as supporting development team in integrating and mapping internal data sources

Data Engineer | November 2021 – December 2021
Data Support Specialist | April 2021 – November 2021

- Built, automated, and maintained ETL processes across millions of rows to reduce manual workload.
- Built data visualizations in Tableau, Google Sheets, and Python to breakdown business operations and key performance indicators.
- Created email automation scripts to send out reports on a regular basis.
- Performed data analysis to measure operational performance and provided insights to help improve efficiency and effectiveness of the company.
- Deployed RESTful API and added new functionalities and features to company website to streamline data collection processes.

CODING MINDS ACADEMY

Coding Instructor | January 2020 – April 2021

- Taught and managed several classes in core python classes, algorithms, machine learning, web development, and various other classes.
- Modified and implemented course curriculum and programming activities.
- Created, corrected, and reviewed homework and assignments.
- Assessed and monitored student progress and provided feedback to parents.
- Assisted student in creating personal coding projects.

IRVINE UNIFIED SCHOOL DISTRICT

Instructional Aide | March 2018 – April 2021

- Incorporated learning strategies for students with learning disabilities.
- Accommodated student disabilities to help meet IEP goals.
- Used appropriate behavior management techniques to help students in developing and exhibit proper social behavior.
- Maintained daily record of student academic work and progress
- Developed and maintained Google Sheets student management system to keep track of tests and assignments, helping eliminate physical accessories needed for documentation.

EDUCATION

PSYCHOLOGY / MAJOR
Bachelor of Arts
UC Irvine | 2012 – 2016

EDUCATION / MINOR
UC Irvine | 2012 - 2016

PROJECTS
Portfolio | jeremyxu.xyz

STUDENTS MANAGEMENT SYSTEM | *Google Sheets*
System that manages the academic progress of students with special needs. Allows users to view and update current, missing, and completed assignments along with other relevant information. Currently has 150+ users including students and staff members.

STUDENT DASHBOARD | *Google Sheets*
Google Scripts algorithm that collects and organizes student data from multiple files. Student data includes class period, classes, assignments with different indicators and IEP files. Data can be filtered and sorted using queries to display different sets of data through selectable dropdown options.

GROUP GENERATOR | *Google Sheets*
Sorts groups of people by various factors such as gender and life stage and generates groups number of groups or number of people per group.