

JEREMY XU

PRINCIPAL DATA
& SOFTWARE ENGINEER



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EDUCATION

PSYCHOLOGY / MAJOR

University of California,
Irvine | 2012 – 2016

EDUCATION / MINOR

University of California,
Irvine | 2012 - 2016

EXPERIENCE

ILLUMINATION FOUNDATION

Data Support Specialist | April 2021 – November 2021

Data Engineer | November 2021-January 2022

- 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.

Senior Data Engineer | January 2022 – January 2023

- 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

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 in order to collect and mine data for data analysis
- Managed and worked with web developer to design and develop web application with PWA capabilities
- Communicated with internal stakeholders to design and implement application functionalities to improve departmental workflows

CODING INSTRUCTOR

Coding Minds Academy | 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.

INSTRUCTIONAL AIDE

Irvine Unified School District | March 2018 - 2020

- Provided academic support to instructional personnel in general education classrooms.
- 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 student management system to keep track of tests and assignments

SKILLS

Programming languages: Python, R, Java, Bash

Database Modeling: SQL, NoSQL, MongoDB

Database Warehousing: BigQuery

Data analysis and visualization: Pandas, NumPy, Apache Spark, Tableau, Data Studio

Other tools and frameworks: Docker, Flutter, Dart, Apache Airflow, Github Actions

Web development: HTML, CSS, JavaScript, 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, Linux

PROJECTS

Portfolio | jeremyxu.xyz

STUDENTS MANAGEMENT SYSTEM | *Google Sheets*

System that manages the academic progress of students with special needs. Used by 150+ users including students and staff members.

STUDENT SEARCH ALGORITHM | *Google Sheets*

Javascript algorithm that collects and organizes student data from multiple files. Student data includes student period, assignments with different indicators, classes, 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.