

# JEREMY XU

DATA ENGINEER



jeremyxu24@gmail.com



415 810 4283



jeremyxu.xyz



linkedin.com/in/  
jeremyemxu

## SKILLS

### LANGUAGES

- Python
- SQL (MySQL, SQL Server, PostgreSQL)
- HTML5
- CSS3
- JavaScript

### LIBRARIES

- Pandas
- NumPy
- Scikit-Learn
- Matplotlib
- Flask
- PyMySQL
- Bootstrap

### TOOLS

- Tableau
- Excel
- Google Sheets
- Visual Studio Code
- Google Scripts
- GitHub
- Git

## EXPERIENCE

### ILLUMINATION FOUNDATION

*Data Support Specialist | April 2021 – November 2021*

*Data Engineer | November 2021 – December 2021*

*Senior Data Engineer | December 2021 – Present*

- Designed database infrastructure and created database schemas using DW/BI standards and guidelines.
- Automated, built, and maintained ETL processes across millions of rows to reduce manual workload.
- Developed algorithms to integrate similar datasets across multiple data sources to bridge the gap between different systems.
- Built data visualizations in Tableau, Google Sheets, and Python to breakdown business operations and key performance indicators.
- Evaluated and compared data sets for quality and accuracy to provide clean data used for analysis.
- Organized and managed the data team and provided technical training and guidance to team members.
- 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*

- 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

### MATHNASIUM OF UNIVERSITY IRVINE

*Assistant Director | February 2018 – December 2019*

- Managed company operations and services.
- Provided technological support and resolved software/hardware issues for system maintenance.
- Developed, monitored, and implemented comprehensive math curriculums according to student's level.
- Managed, developed, and updated company website and marketing resources.
- Trained new employees in company policies and procedures.
- Provided strategic customer acquisition and satisfaction.
- Created academic strategies to improve student self-sufficiency.
- Helped students learn and understand math concepts in private and group settings.
- Collaborated with administrators to meet diverse needs of clients.

## EDUCATION

### PSYCHOLOGY / MAJOR *Bachelor of Arts*

UC Irvine | 2012 – 2016

### EDUCATION / MINOR

UC Irvine | 2012 - 2016

## PROJECTS

Portfolio | [jeremyxu.xyz](http://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.

### STUDENT MANAGEMENT SYSTEM APPLICATION (in progress) | *PERN Stack*

Designed and created PostgreSQL data model and database configured for technological integration and support. Created stored procedures used for front-end development.

### 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.