Alexander Huang Liu

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Senior at UCSD

Senior Year student at UCSD with a focus on front-end development, databases and machine learning. Worked on front-end development using plain HTML, CSS, JavaScript, as well as TypeScript with libraries like Konva. Created classifiers by using linear and logistic regression models. Crafted SQL queries in PostgreSQL to efficiently retrieve necessary data from a dataset.

EDUCATION

University of California, San Diego   San Diego, CA
Bachelor of Science in Computer Science   June, 2026

PROJECTS

Classifiers | Python
- Developed a kNN model to classify images using MNIST.
- Developed a linear regression model to classify wines using UCI Wine.
- Developed a logistic regression model to predict heart disease using UCI Heart Disease.
- Leveraged correlation analysis to identify key predictors and enhance model accuracy.

Personal Portfolio | HTML, CSS, JavaScript
- Developed a responsive personal portfolio website with smooth browsing experience.
- Integrated interactive features, including dynamic hover effects and real-time validation.
- Focused on performance optimization and code cleanliness, resulting in fast load times.
- Enhanced user interactivity with JavaScript features like event handling.

Math Game | HTML, TypeScript
- Developed an interactive math quiz game to enhance user's math skills.
- Utilized Konva.js for clean 2D canvas graphics, enabling smooth visual transitions.
- Created intuitive screens with options to start, pause, and restart the game.
- Implemented a scoring system, timer countdown, and feedback for answers.

TECHNICAL SKILLS

Languages: Python, PostgreSQL, Power BI, Excel, ETL, HTML, CSS, JavaScript, TypeScript
Libraries: pandas, numpy, scipy, matplotlib, scikit-learn, konva
Databases: UCI MNIST, UCI Wine, UCI Heart Disease, university