

# Qianhan “Janet” Zhang

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## Education

### University of California, Davis

Bachelor of Science in Computer Science

Bachelor of Science in Statistics

Sep. 2015 – Dec. 2019

Cumulative GPA: 3.21/4.00

## Relevant Coursework

- Machine Learning
- Database Systems
- Probability Theory
- Number Theory
- Artificial Intelligence
- Algorithm Design
- Operating Systems
- Regression Analysis

## Relevant Work Experience

### Independent Software Developer

Sep. 2020 – Present

*CSV to Canvas Grade Transfer*

*Davis, CA*

- Designed, implemented, and maintain an automatic grade transfer program from CSV files to **Canvas** using **Canvas LMS REST API** and **Python API wrapper**.
- Used object-oriented programming and command line interface to match students and bulk update their grades. Transferred 12661 grades from 669 UC Davis students since October 2020.
- Saved the instructor ~75% of the grade uploading time by simplifying the required documents and matching students automatically based on emails, IDs, and names.
- Integrated into a UC Davis CS instructor's collection of desired features that aren't currently implemented in Canvas: [https://github.com/mfbutner/CanvasHelpers/tree/master/src/grade\\_transfer](https://github.com/mfbutner/CanvasHelpers/tree/master/src/grade_transfer).

## Projects

### Machine Learning Course Project | UC Davis

Fall 2018

- Used **Keras** and **Tensorflow** to build a 4-layer feed-forward **artificial neural network** classifier to find the localization site of a protein in yeast.
- Split 1,484 proteins (8 features, 10 classes) into 70% training and 30% testing. After training the model 200 times, achieved 57% accuracy on the testing data.

### Database Systems Course Project | UC Davis

Spring 2018

- Designed and created a **PostgreSQL** database for a mock university using **realistic and messy** student data (46.1MB in CSV, 891K lines total) with one partner.
- Queried the database to calculate various information such as the students' units, GPA, and transfer rates, and the courses' average grades.
- Located apparent course prerequisites by identifying patterns in students' prior course enrollment.

## Other Work Experience

### University of California, Davis

Jun. 2016 – Sep. 2016

*Orientation Leader*

*Davis, CA*

- Introduced incoming students to UC Davis and assisted them in registering for courses. On average 4~7 students per session, 2 sessions per week.
- Served as Deans' and Directors' **live** English to Chinese translator for the students' family members to facilitate communications.
- Delivered a presentation to ~450 students about my experience at UC Davis.

## Technical Skills

**Languages:** Python, C/C++, Java, R, SQL (PostgreSQL), Bash

**Developer Tools:** Vim, Git, Linux, PyCharm, Eclipse, CLion, LaTeX, Docker