

Jianglong Yu

yujian@oregonstate.edu | (541)829-2196
jaron-u.github.io | github.com/Jaron-U
Corvallis, OR

EDUCATION

Oregon State University

B.S. in Computer Science

Cumulative GPA: 3.68/4.00, Major GPA: 3.71/4.00

Concentration: **Artificial Intelligence**

Corvallis, OR

Sep.2019-Jun.2023

Texas A&M University

M.S in Computer Science

College Station, TX

Enrollment Aug.2023

PROFESSIONAL SKILLS

- **Programming Language:** C/C++, Python, JavaScript, Node.js
- **Developer Tools:** VSCode, Visual Studio, Android Studio
- **Libraries:** Pandas, OpenCV, NumPy
- **Others:** Git, REST APIs, Flask, MacOS, Linux

RESEARCH

GIS Tool – Safer-Ways

Senior Design, Mentor: Professor. Joseph Louis

Corvallis, OR

Nov.2022-Jun.2023

- Developed Safer-Ways, an app for optimal route calculation while avoiding hazards.
- Created user-friendly interfaces using ArcGIS Pro and open-source routing software.
- Contributed to the project's backend and frontend using Flask framework and JS.
- Implemented functionality to avoid wildfires, floods, and degraded infrastructure.
- Designed complex route aggregation operations for evaluating evacuation points.

Development a Supply Chain Model

Mentor: Professor. Karthika Mohan

Corvallis, OR

Oct.2022-Jun.2023

- Building a supply chain model using the Probabilistic Programming Languages (PPLs) in order to answer causal queries.
- Collect relevant data and generate values of different parameters in the supply chain using different probability distributions, and then answer the causal queries through the model.

PROJECTS

Traveling APP

Winter 2023

- Led a team of 4 to create a travel app for city information.
- Developed the app in Android Studio using Kotlin.
- Integrated Google Maps and Yelp APIs for data gathering.
- Implemented activity lifecycle, ViewModel architecture, and user settings page.
- Responsible for main page functionality and code merging using Git.

Drawn Digit Identification (Small MNIST)

Fall 2022

- Implement a feed-forward neural network model for predicting the value of a drawn digit.
- Using Backpropagation for Feed-forward Neural Network.
- Use the ReLU as the active function and change some Hyperparameter values to improve the accuracy.
- The accuracy of this classifier is 95%.

Sentiment Analysis based on Naive Bayes

Spring 2022

- Predicted the sentiment sentences taken from Yelp reviews to determine the writers' positive or negative attitudes toward the subject.
- Used Python to preprocess data by transforming each sentence into a feature vector plus a class label that could be readable by the Naive Bayes algorithm.
- Built a Naive Bayes classifier and trained the classifier so that it could read the training labels and learn the parameters used by the classifier.
- The accuracy of this classifier is 75%.

Design of Student Management System

Spring 2021

- Implemented a complete RESTful API for Tarpaulin app, which allowed users to review course contents, set up, correct, and submit assignments.
- Managed backend data with MongoDB and verified the users' qualification based on JWT standard.

TEACHING & VOLUNTEER EXPERIENCES

Teaching Assistant, Oregon State University

Jun.2022-Mar.2023

- Assisted the course instructor in grading and reviewing students' weekly assignments, quizzes, and course materials.
- Arranged FAQ sessions to tackle students' problems encountered in lectures and assignments.

Community Volunteer

Jul.2021-Aug.2021

- Provided community service to citizens in Xinxiang, a city that suffered from rainstorm, and arranged encouragement events.