Albert Stanley

Education

Davis, CA **University of California, Davis** Fall 2018 - June 2022

- B.S. in Computer Science, Major GPA: 4.0/4.0
- Coursework: Algorithm Design and Analysis; Data Structures; Web Programming; Software Development in UNIX and C/C++; Artificial Intelligence; Applied Linear Algebra; Probability & Statistical Modeling; Applied Data Science; Operating Systems and Systems Programming; Machine Learning; Database Systems

Experience

Software Development Engineer Intern Amazon June 2022 - Present

- Implementing logic for weekend alarms in Alexa Alarms cloud service to support countries that do not have Saturday/Sunday weekends. Java.

Undergraduate Programmer Quon Lab February 2021 - June 2022

- Training convolutional neural network to predict features based on sequencing data
- Tuning hyperparameters such as learning rate, number of layers, regularization, and dropout to improve performance of the model. Python, Keras
- Developing scripts to pipeline software tools and automate submissions of jobs to cluster

Teaching Assistant ECS 150: Operating Systems April 2021 - June 2021

- Created test cases for autograder (Python) and held office hours for project help (C++)

Projects

- **User Level Threading Library in C** (2021): Enables users to run functions within a program as threads. Implemented thread scheduling using a queue. The user can enable or disable preemption, either relying on threads to yield to the next available thread or can enforce preemption in which threads are forced to switch.
- **Bike Rental Predictor** (2021). Web application that takes user input, such as time of day, day of the week, weather, and returns predicted number of bike rentals needed. Wrote code to train and save model, and setup functions to use models to predict on user input data. Python, Sklearn
- **Restaurant Matcher** (2020)**.** Web application to help people decide on a place to eat as a group. Provides possible matches based on user location and food preference. Users approve or disapprove of each restaurant until a group winner is found. Leverages Yelp API data. Javascript, HTML, CSS, SQL

Languages and Technologies

- Python; Java; C++; C; Shell; JavaScript; SQL; HTML; CSS
- Git; Pandas; SQLite; Express.js; Flask; NumPy; Keras; Tensorflow