2518 Buena Vista Ave   **Albert Stanley**   (510)-331-4958

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Education

Davis, CA	**University of California, Davis**	Fall 2018 - Present

- B.S. in Computer Science, GPA: 4.0/4.0
- Coursework: Algorithm Design and Analysis; Data Structures; Web Programming; Software Development in UNIX and C/C++; Artificial Intelligence; Computer Architecture; Machine Dependent Programming; Linear Algebra

Projects

- **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
- **Recommendation System** (2020). Recommendation engine built for Innovation Minds, a human resources company. Implemented algorithm to match team preferences with data about user skills. Built as a team for an AI Society industry project. Python, Keras, Flask

Experience

Undergraduate Research Assistant	**Al-Bassam Lab**	**February 2019 - June 2019**

- Worked in a computational biology lab to develop models of cell division proteins.
- Used You-Only-Look-Once (YOLO) object detection algorithm to detect proteins in electron-microscope images through computational tools such as crYOLO.
- Automated process of segmenting images to speed up the protein imaging pipeline.

AI Navigation Engineer	**RoveCrest Club at Davis**	**September 2019 - August 2020**

- Implemented pipeline in Robotics Operating System (ROS) package to autonomously navigate a mars rover through terrain given a goal and stereo camera data.
- Researched existing packages and tested in computer simulation using Gazebo.

Leadership

- **Machine Learning Tutor - Artificial Intelligence Society Club** (2020)**:** Taught supervised machine learning including handling of training set, validation set, and test set. Used scikit-learn to demo linear regression on a housing data set and logistic regression on handwritten digit recognition.
- **Emergency Medicine Research Associate Trainer - UC Davis Medical Center** (2019): Trained new volunteers in research protocol, informed consent, and research study details. Actively communicated with doctors, nurses, and research staff to ensure valid patients would qualify for studies.

Languages and Technologies

- Python; Java; C++; C; JavaScript; SQL; HTML; CSS; XML Schema; CSV Schema
- Git; Pandas; SQLite; Express.js; Flask; NumPy; Keras; Robotics Operating System