Albert Stanley

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Education

University of California, Davis, GPA: 4.0/4.0   *Davis, CA*

B.S. IN COMPUTER SCIENCE AND ENGINEERING   *September 2018 - June 2022*

- **Courses:** Algorithm Design and Analysis, Web Programming, Development In UNIX and C/C++, Data Structures, Artificial Intelligence
- **Clubs:** Artificial Intelligence Society, RoveCrest Mars Rover Navigation Team, Boxing Club

Experience

Al-Bassam Laboratory of Microtubule Dynamics, Structure and Mechanism   *Davis, CA*

UNDERGRADUATE RESEARCH ASSISTANT   *June 2017 - May 2018*

- Used computational tools (RELION and crYOLO) to reduce time required to detect and box out particles in microscope images.
- Created labelled training data sets from 30 - 40 images to allow picking particles from 3000 - 4000 unlabelled images

Projects

Innovation Minds Recommendation System

ARTIFICIAL INTELLIGENCE SOCIETY CLUB INDUSTRY PROJECT   *December 2019*

- Worked in team of four students and Innovation Minds developers to implement recommendation engine on a human resources web platform.
- Developed and implemented algorithm in Python to sort users based on skill data to find suitable teammates for a given project.
- Created endpoint with Flask allowing easy access to algorithm.

Restaurant Matcher - Help Your Group Decide

WEB PROGRAMMING COURSE PROJECT   *May 2020*

- Web application that aims to help groups of people that want to decide on a place to eat by building upon data provided by the Yelp API.
- Friends can join a game from multiple devices where they see one restaurant at a time and indicate whether they like or dislike the restaurant.
- Rounds continue until the group reaches a consensus on a restaurant and all users are notified of the restaurant the group has chosen.
- Backend created with Express.js and utilizes websockets to remain in contact with users and notify all users about game status.

TouchCard - Personalized Postcard Creator

WEB PROGRAMMING COURSE PROJECT   *January 2020*

- Users can upload a photo, text, and customizations for a postcard and share their postcard using a link provided by the web application.
- Developed front end in HTMl, CSS, and Javascript.
- Server side code written with Express.js and uses SQLite to store postcards in database and retrieve them for viewers.

MapRouter - Davis Trip Planner

DEVELOPMENT IN UNIX AND C/C++ COURSE PROJECT   *October 2019*

- C++ program which loads raw XML and CSV data of Davis streets, speed limits, and bus routes.
- Finds optimal path using Dijstra's algorithm based on user transportation preference.

Skills

Languages   Python, C, C++, Java, JavaScript, SQL, HTML/CSS

Technologies   SQLite, Node.js, Express.js, Flask, NumPy, Pandas, Scikit-learn, Git

Leadership

Artificial Intelligence Society   *Davis, CA*

TUTOR   *January 2020 - Current*

- Taught basics of supervised machine learning including understanding of training data, validation set, test set.
- Used scikit learn to implement linear regression with a housing data set and logistic regression for a hand written digit recognition task.

Emergency Medicine Research Associate Program   *Sacramento, CA*

CLINICAL RESEARCH ASSOCIATE TRAINER   *September 2018 – June 2019*

- Trained new volunteers in emergency department research protocol, informed consent, and research study details.
- Actively communicated with hospital staff and research team to validate patients that meet study requirements.
- Screened Electronic Health Records (Epic EHR) at UC Davis Medical Center for patients that would qualify for each study.