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Albert Stanley

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Education

Davis, CA	University of California, Davis	Fall 2018 - Present
<ul style="list-style-type: none">• 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; Applied Linear Algebra; Probability & Statistical Modeling; Applied Data Science; Operating Systems and Systems Programming		

Projects

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- **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.
 - **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
<ul style="list-style-type: none">• 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.		

Leadership

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- **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

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- Python; Java; C++; C; R; JavaScript; SQL; HTML; CSS; XML Schema; CSV Schema
 - Git; Pandas; SQLite; Express.js; Flask; NumPy; Pytorch