ZACK JANDALI

Lake Forest, California · zackjandali@hotmail.com · 9496011237 ·
https://www.linkedin.com/in/zackaria-jandali-3a597b140/

EDUCATION

University of California, Irvine   Irvine, California
BS Computer Science *GPA: 3.72*   October 2020 - June 2022

Saddleback College   Mission Viejo
AS Computer Science *GPA: 3.8*   September 2016 - June 2020

WORK EXPERIENCE

Saddleback College   Mission Viejo
Math Tutor   August 2019 - June 2020

- Up to calculus. Learned to quickly understand others' thinking, communicate better, and change my perspective to better understand the problem.

SKILLS

Programing Languages:	Python, C++, C
Skills:	PyTorch, OpenCV, Matplotlib, NumPy, Excel, Dataset Cleaning, Pandas

PROJECTS

Hand Classifier *Python, OpenCV, PyTorch, XGBoost*   https://github.com/zjanda/Hand-Classifier
Classifies hand as having N fingers held up based on hand pose. Provides option to record data by overwriting or appending to current data, 20 seconds per hand pose (i.e. number of fingers held up), into a .txt file. Trains decision tree (using XGBoost) to classify hand pose. Collects series of predictions and takes top two majority votes to output 1st and 2nd place prediction and their confidence level (or frequency).

Auto Correct *Python, nltk*   https://github.com/zjanda/AutoCorrect
Scanning text, detecting errors, and suggesting a correction using edit distance and a locally trained everygram model of degree 3.

Web Search Engine *Python, BeautifulSoup, nltk*   https://github.com/zjanda/Search-Engine
Built a search engine from scratch that obtains results in <50 ms. In designing the search feature, we anticipated a large inverted index, so searching is done from a file. Returns results from queries from over 50000 local documents in less than .05s. Additionally, designed web crawler that will be combined with the search engine to create a whole, self-sufficient search engine.

Data Cleaning *nltk, re*   https://github.com/zjanda/Data-Cleaning
Cleans (filters) list of words based on list of preferred words.

Titanic Survival Prediction (Kaggle) *PyTorch, Pandas, NumPy*
https://github.com/zjanda/Titanic-Predictions
Predict whether a given member on board the titanic survived based on personal details, like age, fare price, cabin, etc. Model accuracy: 82%.

Adversarial Model Defense and Attack *PyTorch, NumPy*
https://github.com/zjanda/Attack-Defense-War-Adversarial-Training
A group project where we were tasked with defending a model whos inputs were being attacked (perturbed). We had to detect and reverse the attacks. When attacking we had to attack without being detected.

3D Model creation from 2D images *Python*
Given a set of images taken of an object from two perspectives, generate a 3D model using triangulation techniques and generating meshes. (This process was done without using 3rd party software)

Embedded Software Projects *C, Microchip Studio, AVR Microcontroller*
An assortment of projects from an embedded software class at UCI.

AWARDS AND EXTRACURRICULARS

UCI Regents' Scholarship   UC Irvine
The Regents' Scholarship is one of the most prestigious scholarships UC Irvine offers to domestic freshmen entering from high school and transfer students entering from a California Community College. October 2020

Campusewide Honors Collegium and ICS Honors   UC Irvine Honors
Honors programs at UCI. Gained a lot of experience in research techniques.   Fall 2020 - Spring 2021

Phi Theta Kappa, Alpha Gamma Sigma, NSLS   Spring 2019 - Present
Honor scoieties that recognize academic excellence and achievement.