Syed Zain Raza

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EDUCATION

Dominican University of California, San Rafael, CA
B.S. Applied Computer Science (expected Dec 2021)
- Accelerated 2.5-year program involving **statistics, machine learning,** and **computer science**.

EXPERIENCE

Teaching Assistant, Data Science and Machine Learning   *Dominican University of California, Fall 2021*
- Supporting 20+ students in understanding **Machine Learning** theoretical principles (e.g. contributed to guided walkthrough lessons on utilizing **deep learning** for image classification, and built a companion REST API).
- Hosting weekly Office Hours to increase the average student grade and improve student portfolio projects.
- Revamped 30 Python exercises for professor's upcoming textbook on Data Science and Machine Learning.

Open Source Developer, headsetsGoodbye (**Tensorflow.js, Self-Driven)**   *IQ3Connect Inc., Feb 2021-May 2021*
- Developed computer vision algorithms to demo facial expression analysis for interfacing with a digital robot.
- Implemented a face tracking app where the user's line of sight moved the camera's field of view in a 3D space.

Software Engineer Intern, Carbon0 (**Tensorflow, Pandas, Django**)   *Carbon0 Games, Aug 2020-Mar 2021*
- Acquired 500+ users in about 90 days for a green-field MVP at a startup, accelerated progress to funding.
- Added new features like a **CNN** that achieved 70% accuracy in **classifying plant disease via Keras**.
- **Raised model's accuracy to 89%** using transfer learning with Inception V3, and exported to production**.**
- Ingested a dataset of 87,000 images by optimizing memory usage in training with data generators.

Passion Project, Tinydoor (**Python, AWS Rekognition**)   *Microsoft Summer Challenge, Jun-Aug 2020*
- Produced a web app to help retailers track unbiased customer satisfaction metrics using **computer vision**.
- Cultivated a team of four and led pitch to an audience of recruiters and software engineers from Microsoft.

Class Project, Bookstore Classifier (**Python, SciKit-Learn**)   *Make School, May 2020*
- Compared several supervised learning algorithms in Scikit-Learn, reached 70% F1-Score on bookstore dataset.
- **Cultivated oral and written communication skills** via producing an Executive Summary and blog post.

LEADERSHIP EXPERIENCE

Peer Mentor   *Make School, Aug 2020-Present*
- Mentored first-year students in their transition to Make School, increased overall student retention rates.
- Facilitated group discussions with peers to reinforce productive work habits, based on *Getting Things Done.*

VOLUNTEER EXPERIENCE

Hackathon Volunteer   *Make School, 2020-1*
- FHS Hacks - spoke on a panel, gave advice to BIPOC high school students about majoring in CS.
- SRC Hacks II - Mentored 10 high school students in scoping projects, and differentiating their solutions.

TECHNICAL SKILLS

Python*,* Keras, Git, Unix commands, Tensorflow, Django, Docker, NumPy, SciPy, Flask, Scikit-Learn, Javascript