Syed Zain Raza

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EDUCATION

Dominican University of California, San Rafael, CA
B.S. Applied Computer Science
- Accelerated 2.5-year program involving several **computer science**, **machine learning,** and **data science**.

EXPERIENCE

Teaching Assistant (**TensorFlow, Keras,** Docker**)**   *Dominican University of California, Fall 2021*
- Supporting 20+ students in grasping **machine learning conceptual fundamentals** (e.g. contributed to guided walkthrough lessons on using deep learning for image classification, and deployed a companion REST API).
- Hosted weekly Office Hours to support students to achieve their goals on their technical projects.
- Revamped 30 Python exercises for professor's upcoming textbook on Data Science and Machine Learning.

PLM Software Development Intern, R&D (**Java**, HTML/CSS, Javascript)   *PTC, June 2021-Aug 2021*
- Made UI improvements related to enhanced error handling, brand consistency, and information disclosure.
- Collaborated with teammates to review code, fix bugs, and introduce a new e2e testing framework to the team.

Open Source Developer, headsetsGoodbye (**TensorFlow.js)**   *IQ3Connect Inc., Feb 2021-May 2021*
- Self-developed computer vision app to demo facial expression analysis for interfacing with a digital robot.
- Achieved real-time responsiveness for the robot by semantically utilizing the predictions by the vision model.

Software Engineer Intern, Carbon0 (**TensorFlow,** Django**,** Docker)   *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**.**
- Merged 100 pull requests for a team of six developers without hassle by utilizing **automated testing** with CI.
- Streamlined environment setup using Docker, **decreasing friction for OSS contributors.**
- Ingested a dataset of 87,000 RGB 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**.
- Developed a team of four and led pitch to an audience of recruiters and software engineers from Microsoft.

VOLUNTEER EXPERIENCE

Peer Mentor   *Make School, 2020-2021*
- 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.*
- Modeled vulnerability and gave a safe place to ask for help.

TECHNICAL SKILLS

Productive - Python*,* Keras, Git, Unix commands, JavaScript, Django, Docker, NumPy, Java, Heroku
Familiar - TensorFlow/TensorFlow.js*,* Scikit-Learn, Flask, SciPy, AWS, Flask
Learning - PySpark