

Syed Zain Raza

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EDUCATION

B.S. Applied Computer Science

Dominican University of California, 2019 - 2021

- Accelerated 2.5-year program involving **project-based learning** in software engineering and AI/ML.

EXPERIENCE

Research Engineering Intern (**TensorFlow**, JAX)

IQ3Connect Inc., Jan. 2022 - present

- Developing a novel storage solution for **3D web graphics** by utilizing **machine learning techniques**, with the goal of 90% reduction of memory needed for real-time rendering on mobile displays.

Teaching Assistant (TensorFlow, FastAPI, **Docker**)

Dominican University of California, Aug - Dec 2021

- Supported 20+ students in an upper-level **deep learning** course, by co-authoring [walkthrough lessons](#) and writing [starter code](#); enabled 100% student pass rate by **overcoming major roadblocks** that arose in-semester.
- Revised and open-sourced [30 Python exercises](#) for a professor's upcoming textbook on Data Science.

PLM Software Development Intern, R&D (Java, Linux, Angular)

PTC, June 2021-Aug 2021

- Developed a platform-independent error handling message for Windchill, so that the team could focus on implementing **next-generation features for the web** while also retaining users on older browsers.
- Assisted in benchmarking and early adoption of new test frameworks, so the team could **expand e2e testing by 50%** in the deployment pipeline.

Open Source Developer Intern, [headsetsGoodbye](#) (Javascript)

IQ3Connect Inc., Feb 2021-May 2021

- Increased FPS by 100X for a **machine-learning-powered video app** by concisely passing TinyYOLO inferences to WebGL; furthered it by building a [demo](#) app used to generate interest with prospective clients.

Software Engineer Intern, [Carbon0](#) (**Keras**, Docker, Django)

Carbon0 Games, Aug 2020-Mar 2021

- Acquired 500+ users over 90 days for a green-field MVP in a fast-paced, **sustainability** startup.
- **Independently researched**, implemented, and deployed a [plant disease classifier](#) with 89% accuracy, accelerated the company's progress towards an acqui-hire later that year..
- 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 training dataset of 87,000 RGB images by using TensorFlow APIs to minimize memory usage.

VOLUNTEER EXPERIENCE

Peer Mentor, Student Leader

Make School, 2020-2021

- Doubled developer velocity for a team of students, by mentoring on how to use object detection in their [MVP](#).
- Facilitated discussions with 30+ peers to instill great work-life balance habits, based on *Getting Things Done*.
- As an [extracurricular](#), I hosted one of the [“20 Best Computer Vision Podcasts”](#), as ranked by Welp Magazine.

TECHNICAL SKILLS

Productive - Python, Keras, Git, Docker

Familiar - TensorFlow, Scikit-Learn, TensorBoard, NumPy

Desire to Learn - C++, OpenGL, embedded systems