ZACKARY REN

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— S T U D E N T —

OBJECTIVE

Determined undergraduate engineering student seeking a Summer 2020 Internship

SKILLS

PYTHON	OPENCV
C / C++	TENSORFLOW
JAVA	AZURE
HTML/CSS/JS	MATLAB

VOLUNTEERING

Feb. 2019 – Nov. 2019
Sponsorship Chair of MEC
McMaster Engineering Competition
Hamilton, Ontario
- **Organized** 2-day engineering competition spanning multiple engineering disciplines

AWARDS

Dec. 2019
Agorize: AI for Societal Impact Challenge
Made first cut-off: **Top 26 of 147 teams**

Sept. 2018
President's Award
McMaster University, Hamilton, Ontario

EXPERIENCE

Sept. 2019 – Present
Teaching Assistant – Department of Physics and Astronomy
McMaster University, Hamilton, Ontario
- Collaborated with students and professors to reinforce physics concepts
- Led group-based learning discussions in tutorial and laboratories to compliment lecture material

July 2018 – Jan. 2019
Pharmacist Assistant – Progress Center Medical
Scarborough, Ontario
- Quickly and accurately packaged patients' prescriptions under pressure
- Effectively communicated with patients to maintain consistent workflow
- Took initiative to maintain an organized work environment by managing daily orders and inventory

PROJECTS

Nov. 2019 – Present
'Veritech' – Article Political Stance Detection with Microsoft Azure
Agorize: AI for Societal Impact Challenge
- Parse user's query with Python's Beautiful Soup and requests module
- Data cleaning with NLTK, pandas and scikit-learn in Python
- Machine learning bias detection model built with Microsoft Azure's NLP
- Web interface built with Django, React and HTML

Aug. 2019 – Present
'PillPal' – Medication Tracker with Deep Learning
Personal Project
- Isolates and cuts out medication label with OpenCV manipulation
- Analyzes label with a Deep Learning OCR created using TensorFlow
- Front end app built with Flutter

Jan. 2020
'Grapht.ai' – Dermatology Pathology Platform
DeltaHacks VI
- Skin graft classification from Kaggle dataset with GCP AutoML Vision
- Patient-Physician dashboard platform built with React and Node.js
- Aggregated data stored with MongoDB

Mar. 2019 – Apr. 2019
'Mary-Pop-Opens' – Automated Umbrella Holder for Quadriplegic Client
McMaster University, Hamilton, Ontario
- Modelled the chassis of an umbrella holder using Autodesk Inventor
- Utilized a Raspberry Pi to control two servo motors to automate the opening and closing of the umbrella

EDUCATION

Sept. 2018 – Present
Software and Biomedical Engineering
McMaster University, Hamilton, Ontario
- Currently taking courses on Data Structures and Algorithms, Software Design and Quality, and Discrete Mathematics
CGPA: **3.7**/4.0
Expected Graduation: May 2022