### **EXPERIENCE**

# University of Colorado Denver - Active Cyber Infrastructure Defense Lab Research Assistant (Data Science/Cyber Security) - Russian Disinformation

- Fall 2019 Present
- Utilizing data driven methods to implement detection of disinformation as well as topic modeling of dominant themes from a dataset of Internet Research Agency ads.

# University of Colorado Denver - Big Data Management and Mining Lab Research Assistant - CDOT Bridge Management

- June 2020 Present
- Exploring CDOT bridge data in order to deploy machine learning/deep learning models to perform bridge subtyping and deterioration forecasting.

# **PROJECTS**

#### **Multi-Instrument MIDI Generation with RNNs**

Collaborated with a small team and experimented with recurrent neural networks to analyze how they
could be trained to learn and generate pieces of music based on existing music files.

# **Intelligent Augmented Reality Framework**

• I worked closely with university faculty and four other top performing students, we developed a general purpose intelligent classification framework that utilized machine learning, augmented reality and edge computing. The initial task was bacteria classification.

#### **PUBLICATIONS**

 "Multi-Modal Classification for Polarization Intent Detection in Social Media", TrueFact 2020 in conjunction with KDD 2020, August 2020

## **EDUCATION**

# University of Colorado Denver, Denver, CO

Jan 2017 - May 2021

- Candidate for BS/MS Dual Scholars Program in Computer Science
- Overall GPA: 3.5/4.0, Computer Science GPA: 4.0/4.0

### SKILLS

- Languages Python3, C++, Assembly x86, PHP/SQL, Bash, Powerscript, Julia, Swift
- O/S macOS, Windows 10, Linux
- **Software Tools** Visual Studio, Visual Studio Code, Sublime Text, Pycharm, VMWare Fusion, XCode, Unreal Engine 4, Git, Jupyter Notebook, Google Colaboratory, Github, ARKit, Google Cloud
- **Professional** Strong communication, curious learner, detail-oriented, approachable, excellent time management

# **ACHIEVEMENTS**

**Undergraduate Research Opportunity Program (UROP) Grant** - Competitive program designed to financially support research projects for CU Denver Undergraduate students. Approx. 20-40 UROP Full Grant applications awarded each spring semester.

Research and Creative Activities Symposium 1st Place Winning Team (RaCAS) - 1st place winner of team-based university-wide research competition for a project titled "IAR: An Intelligent Augmented Reality Framework" for the category of Technology, Engineering & Math.

# **CERTIFICATES**

**Comcast NBCUniversal Virtual Development Experience Certificate** - Due to the cancellation of my Summer 2020 Software Engineering internship because of Covid-19, Comcast graciously offered a Technology and Engineering virtual program to learn about the company, their products, and employer experiences.