

TOBBY LIE

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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
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EXPERIENCE

Research Assistant (Data Science/Cyber Security) - Russian Disinformation - University of Colorado Denver

- 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. This project is in collaboration with the University of Colorado Denver Communication School.
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PROJECTS

Multi-Instrument MIDI Generation with RNNs

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

Intelligent Augmented Reality Framework

- Worked closely with university faculty and four other top performing students, we worked to create a framework that utilized machine learning, augmented reality and edge computing to produce an intelligent classification framework for various tasks. The initial task being bacteria classification.
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SKILLS

Languages - Python3, C++, Assembly x86, PHP/SQL, Bash, Powerscript, Julia, Swift
O/S - macOS, Windows 10, Linux

Software Tools - Visual Studio 2017, 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.