

# Matthew Alighchi

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## WORK EXPERIENCE

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### University of Nevada, Reno

Aug. 2019 – Present

*Undergraduate Researcher*

*Reno, NV*

- UNR is a Carnegie R1 research institution contributing to Computer Vision and other Computer Science fields.
- Working under Dr. Tavakkoli, we are conducting an Augmented Reality project that would help deaf people by projecting subtitles through an AR headset.
  - Displaying the closed captions from websites such as YouTube, and from television.
  - Utilizing and developing speech recognition software to create closed captions in real time.
- Received additional funding through the Nevada Undergraduate Research Award to fully realize the project.

### University of Central Florida

May 2020 – Aug. 2020

*REU Researcher*

*Orlando, FL*

- The REU program from UCF is one of the oldest running research opportunities for computer vision research.
- Working under Dr. Mubarak Shah, we created a new method for video object segmentation using action recognition techniques.
  - Created a multi-frame network to process frames of a video.
  - Utilized several deep learning and computer vision technologies such as PyTorch, Cluster systems, and OpenCV.
- Publicly presented work through poster sessions and research paper.

### Mission Support & Test Services

June 2018 – May 2020

*Associate in Science*

*Las Vegas, NV*

- MSTS is the operator of the Nevada National Security Site and leading company in radiological research and development.
- As an Intern for MSTS I was provided many industry opportunities in software engineering and the design of nuclear prevention and defense applications.
  - Developed and programmed software to efficiently archive radiological data.
  - Developed solutions utilizing JavaScript and angular for web-based recording of radiological data.
  - Spearheaded mobile development to aide in analyzing radiological data.
- Implement and design projects on my own, and work in a team setting.

## EDUCATION

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### University of Nevada, Reno

May 2021

*B.S. Computer Science & Engineering*

*Reno, NV*

- Recipient of the Nevada Undergraduate Research Reward 2020; 3.74 GPA
- Minor in Digital Media and art production
- Treasurer and one of the founders of the UNR Robotics and Electronics Club

## SKILLS & INTERESTS

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- **Skills:** Software Development; PyTorch and general Deep Learning & Computer Vision technologies; Git; Linux; Visual Studio; .Net Framework; C++, C#, Python HTML & CSS, JavaScript; system design; Microsoft Office Suite; Adobe Photoshop; Keynote/PPT presentation; problem solving; communication
- **Interests:** Digital collaging; contemporary art; experimental music; model kit building; Dune; The Dark Crystal