Ryan McCormick

1 Mountain Terrace, Nanuet, NY 10954 • (845) 641-5584 • rmccorm4@binghamton.edu • www.rmccorm4.github.io

EDUCATION:

Binghamton University, *State University of New York*   **Expected: May 2019**
Bachelor Of Science in Computer Science, Bachelor of Arts in Mathematics   GPA: **3.98**/4.00

SKILLS:

Languages: Python, C++, C, Java, LaTeX, HTML, CSS
Software: Arch Linux, Ubuntu, Windows, Vim, Git, TexStudio, Visual Studio, Android Studio

RELEVANT EXPERIENCE:

Automatic Target Recognition Center Intern   **May '17-Present**
  ➢ Researching machine learning with Dr. Roman Ilin at the Wright-Patterson Air Force Base
  ➢ Utilizing MATLAB to obtain graphical and statistical models
  ➢ Exploring objects representations in Convolutional Neural Networks to further the field

PUBLICATIONS:

Automatic Sign Language Recognition   **Jan '16-Jan '17**
  ➢ Wrote a proposal to track and classify hands in 3D space with the Leap Motion Controller
  ➢ Beat state of the art accuracy on a given dataset by 18.5% with our features
  ➢ Published at IEEE International Conference on Image Processing 2017 (To Appear)

PERSONAL PROJECTS:

Pokéfetch *(in progress)*   **Apr '17-Present**
  ➢ Scrapes pokémon wiki for useful information on any valid pokémon input
  ➢ Outputs relevant information and sprite in "neofetch" fashion
CryptoCipher   **Mar '17**
  ➢ Takes plaintext/encrypted message and encrypts/decrypts it
  ➢ Currently restricted to "Caesar ciphers" but does not require key to decode
TwitterStocks   **Mar '17**
  ➢ Scrapes Twitter for positive/negative keywords related to stocks/companies
  ➢ Tallys results to predict if stock will trend upward/downward in next day
Where's Waldo 3D   **Nov '16**
  ➢ Worked in a team of 3 to create a Microsoft HoloLens app in 24 hours at HackAE
  ➢ Learned and implemented Unity to create a Where's Waldo AR hide-and-seek game

LEADERSHIP:

HackBU, Organizer, *Binghamton University*   **Apr '17-Present**
  ➢ Work with team to generate ideas for weekly workshops
  ➢ Help organize hackathons and secure funding from sponsors
Graphics and Image Computing Lab, *Binghamton University*   **Jan '17-Present**
  ➢ One of few undergraduates tackling image processing problems among PhD students
  ➢ In beginning phase of facial recognition research with Dr. Canavan using TensorFlow
Guest Speaker, *Binghamton High School*   **Apr '17**
  ➢ Delivered an intro to computer science presentation to local high school students
  ➢ Demonstrated concepts through Python games and web development
Physics Teaching Assistant, *Binghamton University*   **Aug '16-Jan '17**
  ➢ Taught and conducted experiments to relate topics to real world applications
  ➢ Quizzed and graded students in order to gauge understanding of material
JET MIP Participant, *Japan*   **Jul '14-Aug '14**
  ➢ 1 of 32 in US awarded grant from Japan Foundation, LA for disaster relief in Japan
  ➢ Conducted outreach among destroyed areas to uncover ongoing challenges