

Ryan McCormick

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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) **April '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
- Tallies 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 **April '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