Ryan McCormick

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EDUCATION*:*

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

SKILLS*:*

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

RESEARCH EXPERIENCE:

3D Facial Recognition *(in progress)* — **Mar '17 - Present**
- Researching neural networks to outperform familiar machine learning techniques
- Looking into the TensorFlow API using Python
- Exploring open source recognition software that uses Torch, a computing framework

Automatic Sign Language Recognition — **Jan '16 - Jan '17**
- Wrote a proposal to track and classify hands in 3D space using the Leap Motion
- Beat state of the art accuracy on a given dataset by 18.5% with one of our features
- Paper currently under review at top national conference

PERSONAL PROJECTS:

CryptoCypher *(in progress)* — **Mar '17 - Present**
- Working to create a program that understands various cyphers
- Take plaintext as input and output an encrypted message
- Take an encrypted message as input and output plaintext

TwitterStocks *(in progress)* — **Mar '17 - Present**
- Scraping Twitter to predict stock price trends based on tweets
- Analyzing keywords in tweets as positive or negative towards a stock
- Tallying results to see if stock will trend upward or 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
- Learned and implemented Unity to create the application environment
- Reimagined Where's Waldo as an augmented reality hide-and-seek game

LEADERSHIP:

Graphics and Image Computing Lab, *Binghamton University* — **Jan '17 - Present**
- One of three undergraduate students tackling image processing problems
- Meet with lab professors and PhD students regularly to stay up to date on progress
- Currently starting new facial recognition research with Dr. Shaun Canavan

Physics Teaching Assistant, *Binghamton University* — **Aug '16 - Jan '17**
- Taught lab section for introductory physics course
- Conducted experiments to relate topics to real world applications
- Quizzed and graded students in order to gauge understanding of material

ACM Student Chapter, *Binghamton University* — **Aug '15 - Present**
- Participate in weekly workshops for interview-style questions and techniques
- Assist students stuck on problems and help to improve solution time complexities
- Placed 3rd out of 25 at club hosted Feb '17 programming competition

JET MIP Program, *Japan* — **Jul '14 - Aug '14**
- 1 of 32 selected in the United States
- Awarded grant from Japan Foundation, LA to raise awareness for disaster relief in Japan
- Conducted outreach among destroyed areas to uncover ongoing challenges