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12202 S. Greenwood St.
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Education

Virginia Polytechnic Institute and State University, Honors College, Blacksburg, Virginia

B.S. Computer Science, December 2019

GPA: 3.59

Presidential Global Scholars (Study Abroad), Spring 2017, Riva San Vitale, Switzerland

Related Coursework: Data Structures, Computer Systems, Artificial Intelligence, Differential Equations, Multivariable Calculus, Computational Neuroscience, Computer Security, Data Science, Bioinformatics

Related Experience

Software Development Intern, Lockheed Martin Space Systems, *Interim Top-Secret Clearance*
Littleton, Colorado (May 2018 – Present)

- Built a Generative Adversarial Network (GAN) that would create images to enlarge small datasets
- Created a text summarization program that will take in several articles and generate a summary for cooperate scouting
- Authored a white paper that proposed using the Word2Vec algorithm to forecast emerging technology trends in academia to make the internal company research selection process data driven
- Created vehicle recognition software that used TensorFlow for satellite and aerial imagery

Lead Software Architect, Rocketry@VT
Blacksburg, Virginia (September 2016 – Present)

- Developed a real time aerial target tracking system in pytorch to identify objects during flight
- Designed active drag system software so that our Rocket would hit an exact target height

Applications & Data Systems Intern, AMC Theatres
Leawood, Kansas (May 2016 – August 2016, May 2017 – August 2017)

- Created and presented a movie recommendation engine in Python to upper level management that is undergoing testing for worldwide implementation on the AMC website
- Built an app in C# that streamlined the process for adding new members to the AMC Stubs program

Research Experience & Projects

Undergraduate Researcher, Assistive Robotics Lab
Blacksburg, Virginia, (August 2018- Present)

- Applied different machine learning algorithms, such as recurrent neural networks, on IMU data for gait prediction

Undergraduate Researcher, Neural Dynamics Lab
Blacksburg, Virginia, (April 2018- May 2019)

- Researched speeding up training phase of a Brain Computer Interface (BCI) using deep learning
- Publication: *A comparative study of motor imagery based BCI classifiers on EEG and iEEG Data* in GlobalSIP 2019 (Under Review)

Politigague, Data Science Capstone Project
Blacksburg, Virginia, (January 2019 – May 2019)

- Created a Chrome extension to detect political bias based of the organization that released and article and linguistic queues inside the article
- Won two awards at Virginia Tech Undergraduate Computer Science Symposium

Extracurricular Activities

Virginia Tech ACM-ICPC Programming Team
Honors Residential College Apartment Fellow

August 2016 – September 2018
August 2016 – May 2018

Skills

Java	Python	C#	Mathematica	Pytorch	SQL
MATLAB	JavaScript	TensorFlow	C	Linux	MongoDB