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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

Related Experience

Software Development Intern, Lockheed Martin Space Systems

Herndon, Virginia (May 2018 – August 2018)

- Created image recognition software that used TensorFlow for vehicle detection on satellite imagery
- Developed recommendation algorithm to assist users in choosing overlays to place on maps
- Implemented and maintained a web-based application using AngularJS

Lead Software Architect, Rocketry@VT

Blacksburg, Virginia (September 2016 – Present)

- Designed active drag system software so that our Rocket would hit an exact target height
- Authored a safety report on Hybrid Rocket Engines (HRE) so that the team could begin development on construction of our own HRE for the 2017-2018 IREC competition

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
- Utilized React.js to design multiple features on the AMC website, including making the site more handicap accessible, modernizing the search bar, and hybridizing the ticket purchasing page

Research Experience & Projects

Undergraduate Researcher, Neural Dynamics Lab

Blacksburg, Virginia, (April 2018- December 2019)

- Researched speeding up training phase of a Brain Computer Interface (BCI) by using deep learning methods
- Created my own research about removing movement artifacts from EEG and ECoG data

Undergraduate Researcher, Assistive Robotics Lab

Blacksburg, Virginia, (August 2018- Present)

- Applied different machine learning algorithms on IMU data for gait prediction

Undergraduate Researcher, Software Innovations Lab

Blacksburg, Virginia, (January 2018- Present)

- Created a Python package that has a web scraper to find MusicXML files online and uses the data found to analyze and sort them for a musical search engine
- Won 2nd place at Virginia Tech Undergraduate Computer Science Symposium

Extracurricular Activities

Virginia Tech ACM-ICPC Programming Team

Students for the Exploration and Development of Space

August 2016 – February 2019

August 2015 – August 2018

Skills

Java	Python	C#	Mathematica	C++	SQL
MATLAB	JavaScript	Arduino	C	Linux	MongoDB