

Brian Muhic

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EDUCATION

Virginia Tech, College of Engineering

B.S Computer Science

Blacksburg, VA

Expected May 2026

- Expected Minors: Math and Cyber Security
- GPA: 3.5
- Fall 2022 Dean's List, Spring 2023 Dean's List
- Relevant Classes: Calculus 1, Calculus 2, Calculus 3, Discrete Math, Linear Algebra, Introduction to Software Design, Software Design and Data Structures, Computer Organization, Foundation of Physics, and Foundations of Engineering

TECHNICAL SKILLS

Java, Python, PostgreSQL, AWS, Apache Kafka, Artificial Intelligence, Machine Learning, MATLAB, Simulink, JavaScript, Node.js, Object-Oriented Programming, Software Testing, GitHub

RELEVANT EXPERIENCE

Hokie Electric Vehicle Team

December 2022 – Present

Propulsion and Controls and Modeling Team Member

Virginia Tech

- Working on optimizing a 2023 Cadillac LYRIQ over the next four years.
- Responsible for the controls of all longitudinal motion of the vehicle, including interfaces with automated features.
- Design and test the propulsion system for the electric vehicle challenge.

Lockheed Martin Code Quest

April 2022

Participant

Moorestown, NJ

- Competed against other schools in designing and programming solutions to complex math and science problems.

Tetris AI

November 2022

Developer

Blacksburg, VA

- Created a Tetris AI that evaluated all rotations of the current piece and selected an optimal position based on the current layout of the playing board by utilizing different algorithms.

EMPLOYMENT

Junior Developer

May 2023 – August 2023

Centrifuge

Remote Internship

- Worked on building an image recognition system. The system included running an open source Artificial Intelligence model on an internet video camera, sending events from the model to cloud hosted microservices, and providing a User Interface to review the events.

Child Care

September 2020 – Present

Private Family

Moorestown, NJ

- Organized creative and fun activities to keep the child engaged and safe.
- Responsible for transporting the child to different places based on the parents' needs.
- Traveled to Greece with the family and took care of the child for 10 days.

AWARDS AND ACCOMPLISHMENTS

Moorestown High School Computer Science Graduation Award

June 2022

- An award that is voted on by the computer science department to reflect a student with exceptional achievement in the field of computer science.

Double Category Award Winner at the HackDown Hackathon

November 2021

- Hosted by Kappa Theta Pi at The College of New Jersey.
- Best Space App powered by Space Force and Best Sustainability Hack.
- This project consisted of a multi-purpose environmental sensor system designed to maintain a dynamic equilibrium for confined environments and outer space utilizing an interactive website and sensors.