ADAM COLE
10499 Patrician Woods Court, Great Falls, VA 22066
mobile: 703-973-8087, adamgc@umich.edu

EDUCATION

University of Michigan College of Engineering   **Ann Arbor, MI**
Bachelor of Science in Computer Science, Minor in Economics   *Expected Graduation: May 2026*
Course Highlights: Physics Mechanics, Calculus I & II, Differential Equations,
Introduction to Matlab and C++, Discrete Mathematics, Data Structures and Algorithms

Langley High School   **McLean, VA**
GPA: 4.26 • National Honor Society President • Excellence Award in Computer Science   *June 2022*

PROJECT EXPERIENCE

Nightspot Startup   **Washington D.C.**
Programming Lead   *November 2021 - Present*

- Spearheaded the development of an innovative social media network aimed at enhancing the nightlife experience, utilizing seamless transaction and location data integration.
- Researched, evaluated, and deployed scalable Amazon Web Services (AWS) solutions including EC2, Pinpoint, Cognito, S3, and SNS.
- Designed and implemented a data scraping algorithm to collect comprehensive data from 150+ nightlife venues within the Washington, DC area.
- Leveraged the data to develop a customized machine learning algorithm capable of categorizing venue information
- Demonstrated initiative to create and deploy innovative technological solutions to enhance user experiences.

Spark Electric Racing Project Team   **Ann Arbor, MI**
Data Programmer   *August 2023 - Present*

- Implementing web data visualization solutions to effectively communicate critical real time racing metrics to the team, aiding in decision-making and race strategy.
- Collaborated closely with teammates to optimize the performance of the electric motorcycle through data-driven insights, contributing to significant improvements in overall efficiency and speed.

LEADERSHIP EXPERIENCE

Langley Robotics Team   **McLean, VA**
Team Lead   *September 2019 - 2022*

- United a diverse team of students to design and build a competitive robot for the FIRST robotics competition, resulting in a regional 1st place victory, showcasing effective teamwork and engineering skills.
- Demonstrated leadership and problem-solving abilities by spearheading the development of innovative robot subsystems, contributing significantly to the team's competitive edge and overall success in regional competitions.

Kappa Sigma Fraternity   **Ann Arbor, MI**
Assistant Grand Treasurer, Alumni Chair, and Founding Member; Alpha-Zeta Chapter   *January 2023 - Present*

- Helped reestablish Kappa Sigma on campus, collaborating closely with the national fraternity organization to ensure a successful return
- Drove substantial growth in fraternity membership, strategically increasing participation from 20 individuals to a thriving community of over 84 active members through effective recruitment and engagement efforts.
- Meticulously managing all financial transactions, maintaining comprehensive records, and overseeing the development and execution of the annual budget with a keen eye for fiscal responsibility and sustainability.

SKILLS AND INTERESTS

Software: Solidworks, Microsoft Suite, CATIA V5, Ansys, Photoshop, Premiere Pro
Programming Languages: Python, C++, Swift, HTML, CSS, Java, Javascript, Matlab
Fabrication: Custom PC building, Soldering, 3D Modeling and Printing
Languages: English (native), Spanish (intermediate)

ACTIVITIES

Michigan MRover Project Team   *Sept 2022 – Aug 2023*
Model United Nations   *Sept 2020 – June 2022*