

Chase Roll

706-633-9432

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Profile

Rising grade 12 high school student with a passion for learning and striving for excellence. Seeking diverse experiences to foster personal and professional growth. Demonstrated abilities include quick learning, unparalleled work ethic, reliability, and keen attention to detail.

Key Skills

- Rapid Learner
- Dependable and Reliable
- Excellent Communication
- Detail-Oriented
- Self-Motivated and Disciplined
- Great Team Collaboration
- Critical and Analytical Thinking

Experience

Intern/Volunteer

Conservative Political Action Conference (CPAC), Washington, DC & Orlando, FL

- Aided in the development and implementation of CPAC's social media outreach strategies, coordinating closely with speakers and their staff.
- Conducted interviews with various political officials.
- Enhanced CPAC's social media presence by creating and uploading quality posts, thereby improving traffic and engagement.
- Worked with a variety of audio and visual equipment to create compelling videos and content.

Farm Hand

Cashes Creek Farms, Blue Ridge, GA

- Maintained expansive land holdings, pasture, and grazing areas using all-terrain vehicles, tractors, and mowers.
- Managed animal care, including feed and medication preparation, and shifting animals between grazing areas.

- Constructed and maintained fences around grazing areas to ensure animal safety.
- Managed transportation and distribution of large quantities of hay and straw.

Education

- Maintaining a strong academic performance with a 3.96 unweighted GPA while enrolled in advanced courses.
- Pursuing advanced math and science curriculums from Art of Problem Solving. Some of the courses I am taking are BC Calculus 2, AP Physics, and Advanced CompSci Principles.
- Homeschool courses in subjects including but not limited to Philosophy, Spanish, and Apologetics. Also possesses three years of Latin study and experience with the Institute for Excellence in Writing (IEW).
- Exploring MIT OpenCourseWare for additional educational opportunities. Future courses include Introduction to Special Relativity and Introduction to Aerospace Engineering.
- Gearing up for participation in academic competitions such as the American Math Competition (AMC 12) and Georgia Tech High School Math Day (HSMD). Also set to undertake a range of Worldwide Online Olympiad Training (WOOT) courses - including Math WOOT, Physics WOOT, Chemistry WOOT, and Code WOOT - through Art of Problem Solving.

Projects

- Developing Helios, an innovative productivity app that leverages sophisticated LLMs and combines task management, fitness tracking, dietary planning, and social networking for improved lifestyle efficiency.
- Building a small hybrid rocket engine with variable thrust and thrust vectoring capabilities.
- Designing an autonomous paintball turret with advanced targeting capabilities facilitated by deep learning neural networks.
- Creating a small-scale neural network in Python for image recognition and classification.
- Aided in the creation of Avata, a startup streamlining local event planning and coordination processes.

Extracurriculars

- Active in Rocketry, Debate, Chess, and Astronomy Clubs.
- Eagle Scout Candidate in the Boy Scouts.
- Participating in Piano, Jujitsu, Wrestling, and Cross Country.
- Volunteering with Feed Fannin.

Websites

- ChaseRoll.com
- Avata.events
- UseHelios.com (currently under development)