

Meru Gopalan

 merugopalan  m3ru

mgopalan6@gatech.edu

(240) 893-4613

EDUCATION

- Georgia Institute of Technology**, Atlanta, GA May 2028
 - Bachelor of Science in Computer Science; Threads: Intelligence and Modeling/Simulation*
 - Coursework: Data Structures, Algorithm Design, SAT Solvers, Machine Learning
- Montgomery Blair High School**, Silver Spring, MD Jun. 2025
 - Science, Math, Computer Science Magnet Program*
 - GPA **4.97**

TECHNICAL SKILLS

- Languages:** Java, Python, JavaScript, TypeScript, HTML/CSS, C/C++, PHP
- Frameworks:** PyTorch, TensorFlow, Git, Unix, Bash, Docker, Flask, React/Next.js, AWS S3, d3

EXPERIENCE

- ML for Linguistics Research**, Georgetown University Washington, DC
 - NERT, Department of Linguistics; Dr. Nathan Schneider* Apr. 2024 - Jun. 2025
 - Legal Treebanking:** Created an annotated corpus of the US Code in the CGEL grammar, identifying dozens of ambiguities in common legal interpretations.
 - ML Parser:** Designed a Machine Learning syntax parser on the CGEL-Bank corpus to assist judicial interpretive analysis.
 - TLT:** Published results in *Treebanks and Linguistics Theories*, part of the **SyntaxFest '25** conference.
- Software for Gamma-Ray Observation**, University of Maryland College Park, MD
 - High-Altitude Water Cherenkov (HAWC) Observatory; Dr. Jordan Goodman* Feb. 2023 - May 2024
 - Built a web-hosted galactic map visualizer using **d3.js** and **Python** allowing hundreds of researchers across HAWC Observatory to interactively find high-energy emitters and upload their findings.
- System Operations Lead**, Montgomery Blair SysOps 2022 - 2025
 - Server Management:** Managed school servers and backups with **NextJS** in **TypeScript**. Maintained and developed websites for **10+** Math, Science and Computer Science tournaments hosted on **S3**.
 - Internationalization:** Led a team to refactor the school software in Spanish using the React **i18n** module to increase accessibility for over **35%** of the community.

PROJECTS

- Peer-to-Peer Messaging Application:** Chat features implemented using Gun.js and End-to-End Encryption.
- ARENA 3.0 AI Safety:** Completed ARENA Safety Curriculum for fundamentals of Safety Evaluation Research.

LEADERSHIP AND COMMUNITY ENGAGEMENT

- Swimming Instructor**, Montgomery County Swim League 2022 - 2025
 - Created and maintained summer-long lesson plans for 2 private students and 20 local pool youth.
- Science Tutor**, Opportunity X MD 2023 - 2025
 - Led a team of 4 to develop and teach a basic science curriculum to gifted middle-schoolers around Montgomery County. Prepared an international batch of students for an organization-wide science fair (**50+** participants).

ADDITIONAL SKILLS

- Languages:** English, Spanish, Kannada, Tamil, Hindi
- Art:** Carnatic Vocal Musician, Jamming with friends
- Interests:** Sanskrit, Swimming, Linguistics, Vedanta