

Diya Sharma

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EDUCATION

Georgia Institute of Technology

B.S. Computer Science; Minor in Neuroscience

Cumulative GPA: 3.77 | Dean's List 2023 – 2025 | Faculty Honors 2025 – Present

Relevant Coursework: Data Structures and Algorithms, Objects and Design, Introduction to Artificial Intelligence, Intro to Cognitive Science, User Interface Design, Research Methods: Human Factors and Human-Computer Interaction

Atlanta, Georgia

Expected May 2027

WORK EXPERIENCE

University of Maryland School of Medicine, Blanpied Lab

Data Science Intern

Baltimore, Maryland

Summer 2024, October 2022 - April 2023

- Developed a classification system (SVM, Random Forest, Gradient Boosting) to automatically differentiate synapses.
- Applied feature engineering and dimensionality reduction techniques using SciKit-Learn and OpenAI
- Automated data collection and image processing pipelines using a combination of Java, MATLAB, and Python

Johns Hopkins University Applied Physics Laboratory

Mechanical Engineering Intern

Laurel, Maryland

June 2022 - March 2023

- Thought of project idea for a fully electronic triage tagging system, leading to acquisition of a \$20,000 grant.
- Led an intern team in the design and development of a novel medical sensor component for the project.
- Presented research and sensor prototype at the 2023 IEEE Integrated STEM Education Conference.

SKILLS

Programming:	Python · Java · C++ · MATLAB · Django · SQL · HTML/CSS · JavaScript · Git · GitHub · Agile/Scrum · VS Code · PyCharm
Data Science & Analytics:	Pandas · NumPy · SciPy · Matplotlib · Seaborn · Scikit-learn · PyTorch · OpenAI Gym · Jupyter Lab · Excel · Data Visualization
Robotics & Hardware:	CAD · Ultimaker 3D Printing · Arduino · Raspberry Pi · PCB Design · Micro Soldering
Campus Involvements:	Campus Tour Guide · Grand Challenges LLC · Event Services Assistant · Tower Undergrad Research Paper (Editor) · Technique Newspaper · Medical Robotics · SynapseX

RESEARCH

Bio-Interfaced Translational Nanoengineering Lab

Undergraduate Research Assistant

Atlanta, Georgia

January 2024 – Present

- Designed a wearable prototype capable of tracking various physiological signals for stress monitoring.
- Created pipeline to preprocess EEG data, applying filtering, artifact removal, normalization, and feature extraction
- Trained and optimized machine learning models (CNN, BLSTM-LSTM, etc)

PROJECTS

Surgical Arm, GT Medical Robotics - Software Team

August 2023 - Present

- Employed image processing and computer vision using tools such as OpenCV and TensorFlow
- Collaborated with a multidisciplinary team to enable robotic arm to autonomously locate and classify surgical tools.

Spotify Wrapper, CS 2340 - Scrum Master

October 2024 - December 2024

- Coordinated a 5-member team to deliver a Spotify Wrapped-style analytics tool two weeks ahead of deadline.
- Integrated the project with the API using Java, ensuring seamless data connection and functionality.

Restaurant Finder, CS 2340 - Scrum Master

August 2024 - October 2024

- Led as Scrum Master to coordinate team efforts and ensure timely delivery of the Atlanta Food Finder website
- Contributed to front-end design, gaining experience with HTML and CSS for UI improvements.