

Smaran Mishra

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EDUCATION

Georgia Institute of Technology 08/2024 – 05/2026 | Atlanta, GA
MS Computer Science

Georgia Institute of Technology 07/2020 – 08/2024 | Atlanta, GA
BS Computer Science
• Highest Honors (GPA: 3.62)
• Minor in Physics

PROFESSIONAL EXPERIENCE

Qualcomm 05/2023 – 08/2023 | San Diego, CA
Software Engineering Intern
• Worked on the Graphics Test Development team to improve the core test framework for Snapdragon graphics test applications.
• Designed and implemented a new configuration schema for 9 distinct test applications with additional libraries and tools, adding functionality and automation
• Wrote python scripts, documentation and build files to drive cross platform build capability initiatives

Georgia Institute of Technology 05/2022 – 12/2022 | Atlanta, GA
Undergraduate Teaching Assistant
• Fulfilled weekly duties preparing, presenting and grading course materials for 200+ undergraduate students
• Developed shell scripts to streamline environment setup and improve the course experience for students

RESEARCH

High Performance Architecture Lab 🔗 05/2022 – 05/2024 | Atlanta, GA
Georgia Institute of Technology
• Developed a suite of benchmarks to analyze GPU performance across various NVIDIA architectures.
• Demonstrated vulnerabilities in the CUDA architecture that allow for exploitable memory overflows and proposed address sanitization solutions that minimize impact on runtime
• Validated a novel cybersecurity attack via power side-channels on LLMs like GPT and proposed potential countermeasures.

Medford Group 🔗 01/2021 – 05/2021 | Atlanta, GA
Georgia Institute of Technology
• Completed paper reviews and trained in a team with other undergraduates
• Calculated energy levels for different molecules using tools like Anaconda, Jupyter and AMP Torch

SKILLS

Languages – Python, C, C++, CUDA, Java, C#, HTML, CSS, Shell Script, VHDL, Verilog, Matlab | **Software** – Linux, Docker, Git, Jira, Gerrit, Visual Studio, Android Studio, CMake

LEADERSHIP

WreckCon 🔗 06/2022 – 04/2024
President
• Led a small team to host a convention showcasing student culture at Georgia Tech with a total attendance of nearly 1,200 people in our first year
• Canvassed for and handled a budget of nearly \$30,000 and managed to deliver on all goals under-budget

Georgia Tech Dungeons & Dragons 01/2021 – 05/2023
Junior/Senior Executive Officer
• Co-founded and helped establish an RSO that grew to 110 members, with 800 members on our communication channels by the end of the year