PRATHAM SAURABH

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EDUCATION

Georgia Institute of Technology   GPA: 3.7
B.S. Computer Science   Graduation: May 2027

- **Relevant Coursework**: Computer Organization and Programming, Data Structures & Algorithms, Objects and Design, Linear Algebra, Discrete Mathematics, Introduction to Object Oriented Programming, and Integral Calculus
- **Languages:** Java (Junit, Apache), Python (numpy, pandas), JavaScript, LC3 Assembly, SQL, ADA, HTML, CSS, C++, C, C#
- **Software:** CircuitSim, Docker, LC3Tools, SonarQube, AWS EC2, CodePeer, APKtools, Git, GeNN, MySQL, Pytest
- **Clubs:** Georgia Tech IOS club – Bootcamp, Create X, Ivan Allen Student Advisory Board, Vertically Integrated Projects

PROFESSIONAL EXPERIENCE

Lockheed Martin   Marietta, GA
Software Engineering Intern (AMMM Cyber Security)   June 2025 – Present

- Built a script analyzing 100+ cyber documents, flagging and mapping errors leading to a 15% reduction on document review time
- Co-Authored a Software Assurance Plan standardizing code review and secure development practices Lockheed wide
- Conducted DISA STIGs assessments, testing legacy models and driving improved compliance across 12+ avionic systems
- Mapped CCI controls to NIST 800-53, delivering audit-ready artifacts that sped up compliance reviews and minimized delays
- Consolidated 30+ internal teams guide into JIRA/Confluence, improving onboarding and streamlining workflow by 25%

Cyber Software Engineering Intern (AMMM Cyber Security)   May 2024 – August 2024

- Created a Python automation model to parse CodePeer results, accelerating code review by 35% identifying 200+ inefficiencies
- Utilized NIST 800-53 and CNSS controls to refine security policies for 50+ aviation subsystems reducing audit gaps
- Refactored Ada based legacy models improving modularity and maintainability, reducing static analysis warnings by 30%
- Collaborated with Avionics teams to integrate findings into C-130J maintenance, decreasing redundant review loops
- Led intern knowledge sessions, training over 40+ peers on secure coding techniques and vulnerability assessments

Georgia Tech Vertically Integrated Projects   Atlanta, GA
Undergraduate Researcher (STEMcomm)   January 2025 – Present

- Conducted research on Artificial Intelligence, data collection methods, and physics applications to advance STEM education
- Designed a data scraper to collect and analyze datasets for research, improving data accessibility and usability (Selenium)
- Developed a Physics GPT model to generator accurate and interactive physics explanations, enhancing educational resources
- Assisted in planning, promoting, and executing the Computer Science based events at the Atlanta Science Festival

University of Georgia Research   Athens, GA
Undergraduate Researcher   June 2022 – May 2024

- Developed robust security framework for mobile and IoT systems enhancing security using APK files firmware (APKtools)
- Created an automated model which would download multiple APK's from the internet and place into a google sheet (Selenium)
- Analyzed the structure of Arduino's PLC devices to undergo penetration testing to create a more robust model of security
- Created projects which automated over various devices using the Arduino device to ensure speed to everyday tasks

ZenFrenz   Remote
Data Intern   June 2023 – August 2023

- Presented data-driven insights to the CEO, resulting in 12% conversion increase pet wellness tailored via Shopify campaigns
- Identified purchase pattens from 5000+ customers data across Amazon FBA and Shopify, improving targeted precision

PROJECTS

PhysicsGPT
STEMcomm

- Built a transformer model to answer physics questions using a custom dataset of 60,000+, improving engagement and accuracy
- Designed and implemented data preprocessing pipelines to clean, structure, and optimized data for chatbot integration
- Leveraged NLP techniques to enhance response accuracy, ensuring reliable and detailed answers for complex physics queries

GeNN CI/CD Workflow Integration
INCF/GSOC 2025

- Designed and implemented six custom GitHub Action workflows to automate CI/CD testing for GeNN Neural Network framework
- Improved pull request stability through the addition of linting (clang-format) and unit-testing, reducing manual review by 40%
- Validated workflows on Ubuntu runners, debugging EC2 compatibility refactoring jobs for cross-platform deployment (AWS EC2)

ADDITIONAL

Interests: Cooking, Hiking, Exploring, Basketball, Football, Tennis (Highest UTR 7), Gardening, DIY Builds, Hapkido
Security Clearance: Interim Secret
Languages: English (Fluent), Hindi (Proficient in Speaking), Spanish (Intermediate in Speaking)