SIDDARTH GUPTA

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Professional Summary

A pragmatic Computer Science student with 5 years of coding experience and a passion for learning and building new things. Strong organizational abilities with successes managing academic projects and mentoring.

Skills

- Languages • Python, Java, Javascript, HTML, CSS, C, SQL.
- Frameworks • Materialize, ReactJs, Django, Apache Calcite.
- Microsoft • Excel, Powerpoint, Access, Word.
- Soft Skills • Leadership, Communication, Critical Thinking, Research, Innovation.

Education

Pennsylvania State University, University Park , PA

Bachelor of Science
Major: Computer Science
GPA: 3.01/4.00
Expected Graduation: June 2026

Experience

Computer Science Research Assistant - Pennsylvania State University, Pennsylvania

· Worked under Dr. Daniel Kifer, assisting him in the development of a successful Privacy Preserving System.
· Assisted him in writing the research paper. <url>
· Developed privacy Preserving prototypes, parsing SQL queries using tech such as Apache Calcite for maximum efficiency.
· Providing reasonable level or privacy protection while also preserving the utility of data for statistical analysis.

Programming Intern - Petrous,India

· Worked with analysts to prepare test plans and assess test data.
· Used critical thinking to simplify problems, evaluate solutions & make decisions.
· Created databases, web forms and other applications for diverse uses. Designed and developed analytical data structures using Python.

Projects

Enhanced neural Cleanse Detection
This research improves backdoor detection techniques in Neural Cleanse by developing an advanced system using deep learning, adversarial training, and data augmentation. Results were documented in a research paper, advancing secure machine learning.

Privacy Preserving System
A PINQ-based system ensures privacy by employing differential privacy techniques, allowing secure data sharing and accurate statistical analysis while preserving individual data confidentiality. Results were documented in a research paper, advancing user privacy.

OnlyFans — Python, Javascript, CSS, HTML, Django, Materialize
A subscription based platform that allows users to post information and users to follow and support influencers of their choice. Available in both web and app versions.

ISS Tracker
The International Space Station Tracker is a real-time project that displays the active location of the ISS on a world map. It utilizes APIs to gather and update latitude and longitude coordinates, providing an interactive visual representation. Users can explore the ISS's position

Awards

Recipient of Erickson Discovery Grant 2023
Recipient of Erickson Discovery Grant for independent research on robust backdoor detection in DNNs. Secured funding, conducted innovative research, and presented findings on posters.