Sarthak Das

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EDUCATION

Georgia Institute of Technology

Graduation: May 2027

Atlanta, Georgia

B.S. in Computer Science

SKILLS

- **Technical Skills:** Java, C, C++, C#, Rust, Python, JavaScript, R, HTML, CSS, Django, Jupyter, JUnit, Apache, TensorFlow, Docker, ReNode, LC3Tools, CircuitSim, Ubuntu, WSL, RISC-V, MySQL, SQL, Git, GitHub, Jira, Agile, Azure, React
- Relevant Coursework: Data Structures & Algorithms, Objects & Design, Organization & Programming, Probability & Statistics for Computing, Linear Algebra, Discrete Math, Intro to Object-Oriented Programming, Integral Calculus
- Hobbies: Basketball, gaming, thrifting, cooking, video editing, traveling, guitar, public speaking

EXPERIENCE

Carnegie Mellon University

Pittsburgh, Pennsylvania

Embedded Systems Research Intern

May 2025 - Present

- Set up Renode emulation environment for secure, real-time execution of applications on Murax RISC-V SoC, improving algorithm performance by 75%
- Implemented Elliptic Curve DSA operations on Murax using Renode on Linux and Unix OS.
- Analyzed system metrics to detect performance bottlenecks and optimize memory usage by 15%
- Explored hardware acceleration strategies to reduce operational cybersecurity risks and increase system resilience by 83%

Georgia Tech Vertically Integrated Project *Undergraduate Researcher (Law, Data & Design)*

Atlanta, Georgia

June 2025 - Present

- Analyzed 410K+ legal claim records and 100K+ docket sheets, using Python with spaCy and pandas to extract named entities, normalize messy legal text, and surface patterns of bias across courts
- Built scalable, modular data pipelines using Python (pandas, NumPy, regex, JSON libraries) to clean, structure, and validate unstandardized court records, enabling downstream classification models and dashboard visualizations for justice system research

Westlake Corporation

Houston, Texas June 2025 - Present

Consultant

• Engineered a scalable Python-based data processing tool to securely aggregate product intelligence across 500+ SKUs, enabling risk-aware pricing decisions and improving enterprise efficiency by 10%

University of Nebraska

Lincoln, Nebraska

June 2023 - August 2023

Developed a Python script to automate the recalibration of 1000+ different recharge rates for MODFLOW simulations, resulting in a 90% increase in efficiency and achieving 100% accuracy

PROJECTS

Movie Store Application

Atlanta, Georgia

Scrum Master

Research Intern

January 2025 - May 2025

- Developed a full-stack Django web application, with a team of 4-6 members in an agile environment, GT Movies Store, implementing 20+ user stories in compliance with full CRUD functionality for reviews and user account management
- Implemented secure authentication protocols (login, reset, access permissions), emphasizing data privacy and compliance with information security best practices

NBA Statistics Application

Katy, Texas

Developer

January 2025 - May 2025

• Programmed a full-stack java-based application to fetch and display real-time NBA statistics using Google and an NBA API, managing data in the backend using distributed systems, for 500+ active players and 30 teams

FinTech Sentiment Analysis Tool

Richardson, Texas

Developer

April 2024

- Spearheaded a team of 4 in development of an NLP-based machine learning model (BERT) to analyze market sentiment on carbon industry news with 85% accuracy across 100k+ entries, supporting data-driven risk assessments
- Built secure scraping pipelines and scalable predictive models to support real-time analytics, decision-making, and business-critical insights for fintech applications

LEADERSHIP

Treasurer

TEDx at Georgia Tech

Atlanta, Georgia

January 2025 - Present

• Developing financial management skills by budgeting, tracking expenses, reaching out to investors & sponsors, and managing over 10k in sponsorship funds to ensure the financial stability of TEDx at Georgia Tech