

SAMAR VEER KAPOOR

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EDUCATION

Georgia Institute of Technology – Atlanta, GA

May 2026

Major: Computer Engineering

GPA: 3.5

Awards: Presidential Scholar

TECHNICAL SKILLS

Languages: Python, Java, HTML, CSS, JavaScript, C++

Frameworks: PyTorch, RoboFlow, Flask, SQL, Bootstrap, React, Neural Radiance Fields (NeRF)

Cloud Platforms: Google Cloud Platform (Vertex AI, BigQuery), Azure (Sharepoint, DevOps)

WORK EXPERIENCE

NCR Voyix – *Software Engineering Intern; Atlanta, GA.*

May 2025 – Present

- Contributing to the centralization of reports dashboards using **React** and **NestJS** to enhance usability and efficiency; supporting backend development to improve system functionality.

United Parcel Service (UPS) – *Software Development Intern; Atlanta, GA.*

June 2024 – August 2024

- Modernized UPS legacy customer configuration systems that had been in use for over 20 years.
- Automated the process of transmitting customer information to a database, reducing the time required from **five weeks to just 8 minutes** and significantly accelerating the customer implementation process.

ThingSphere – *Software Development Intern; Remote.*

November 2023 – March 2024

- Led the strategic implementation of AI applications to assess their use and impact on organizational goals.
- Utilized cutting-edge technologies, including PyTorch, Flask, and SQL, to execute and evaluate uses of AI chatbots and classification bots for company objectives.

Research

AI-Enabled Earth Satellites VIPR Team – *Undergrad Researcher; Athens, GA*

August 2024 – December 2024

- Developed 3D renderings from 2D satellite imagery using Neural Radiance Fields (NeRF) to enhance terrain visualization.
- Integrating and optimizing NeRF techniques to enable execution on edge devices with limited GPU resources.

Visual and Parallel Computing Lab (VPCL) – *Lab Assistant; Athens, GA*

September 2024 – Jan 2025

- Contributing to software development tasks, collaborating on the implementation and testing of visual computing algorithms to enhance model performance.
- Preprocessing image datasets, including coral reef identification models, working with PhD students to support the UGA Ecology Department.

PROJECTS

Img2Text Scanner – *UPS (Hackathon)*

- Used OCR technologies like Google Cloud Platform's Vertex API to automatically extract information from invoices.
- Demonstrated potential cost savings by reducing company processing time by **100,000 minutes daily**.

Cancer Detection Model – *ThingSphere (Hackathon)*

- Collaboratively engineered a cancer detection model designed to distinguish between benign and malignant cases.
- Leveraged ResNet18 model in PyTorch to enhance diagnostic precision.
- Implemented a dynamic presentation of results using a seamless integration of Flask and JavaScript technologies.

LEADERSHIP EXPERIENCE / ORGANIZATIONS

MOMA Club – *Founder; Atlanta, GA*

August 2021 – May 2023

- Established MOMA, an endeavor dedicated to feeding the underprivileged in three different high schools.
- Collaborated seamlessly with esteemed nonprofits, including The Place, Meals by Grace, and the Food for Thought Project, fostering impactful partnerships and furthering the mission of collective community betterment.