

# SAMAR VEER KAPOOR

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**Personal Website:** svkapoor.github.io

## EDUCATION

**Georgia Institute of Technology** – Atlanta, GA

May 2027

**Major:** Computer Engineering

**GPA:** 3.5

**Awards:** Presidential Scholar

## TECHNICAL SKILLS

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

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

**Cloud Platforms:** Google Cloud Platform, Azure

## WORK EXPERIENCE

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

May 2025 – Present

- Using PyTorch for tracking user activity and clicks to improve experience with personalized recommendations
- Supporting full-stack development using React and NestJS.

**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.

## 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

### Phantom Shield

- Built highly accurate model for a DeepFake detector integrated with Zoom meetings using PyTorch and CUDA.
- Model is more accurate than highly popular detection model Mesonet.
- <https://github.com/AkhilNam/PhantomShield>

### Cancer Detection Model – *ThingSphere (Hackathon)*

- Collaboratively engineered a cancer detection model designed to distinguish between benign and malignant cases.
- Leveraged ResNet18 model with 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.