

# Samar Veer Kapoor

📍 Atlanta, GA ✉ svkapoor14@gmail.com ☎ 470 378 7230 🌐 svkapoor.github.io in samar-veer-kapoor 🇺🇸 US Citizen

## Education

**Georgia Institute of Technology**; GPA 3.75/4.0; Presidential Scholar

May 2027

*Bachelor of Science in Computer Engineering*

**Coursework:** Data Structures & Algorithms, Objects & Design, D&A of Algorithms, Program Hardware & Software Sys

## Work Experience

**NCR Voyix**

Atlanta, GA

*Software Engineering Intern; **AI-Driven Centralized Reporting Platform***

May 2025 to Aug 2025

- Designed and deployed the AI-based next generation reporting platform for **150,000+ restaurants**, integrating with a full stack NestJS and React dashboard that featured advanced search, personalized recommendations, favorites, and role-based access controls, **cutting report retrieval time by 80%** for restaurant managers.
- **Independently proposed and secured architect approval** for an ML pipeline in PyTorch that tracked clicks data and updated predictions live, ensuring managers always had access to their most relevant reports throughout the day.
- Automated CI/CD pipelines with GitHub Actions, cutting **deployment time by 45%** and **manual errors by 30%**.

**Visual & Parallel Computing Lab**

Athens, GA

*Lab Assistant; **Computer Vision Coral Reef Identification***

Aug 2024 to Jan 2025

- Developed **computer vision workflows for coral reef analysis**, including CUDA-accelerated deep learning model training, enabling automated identification models for the **University of Georgia Ecology Department**.
- Preprocessed large scale image datasets of 15,000+ samples by handling missing labels, normalizing pixel values, and applying augmentation techniques such as rotation, flipping, and contrast adjustments to ensure effective model training.

**AI Enabled Earth Satellites VIPR Team**

Athens, GA

*Undergraduate Researcher; **AI-based 3D Terrain Modeling with NeRFs***

Aug 2024 to Dec 2024

- Applied **Neural Radiance Fields (NeRFs)** to reconstruct high-fidelity 3D terrain models from 2D satellite imagery.
- Optimized NeRF for **low-power edge deployment**, reducing memory and latency to support live satellite operations.

**UPS (United Parcel Service)**

Atlanta, GA

*Software Development Intern; **Workflow Automation and Modernization***

Jun 2024 to Aug 2024

- Automated UPS's **20+ year old customer configuration system**, a mandatory workflow for **every customer**, reducing onboarding from **five weeks to under ten minutes (99.9% faster)** using Python, SQL, and Power Automate.
- Led a team of two non-technical business analyst interns, guiding them through software implementation.

## Projects

**Phantom Shield - (Neural Network Deepfake Detection for Zoom)**

[GitHub Repo Link](#)

- Built a Zoom integrated deepfake detection model with a ResNet18 architecture in PyTorch, trained on Google Colab GPUs to **88% accuracy, outperforming the industry standard Mesonet** benchmark.
- Trained on **150,000+ images** and integrated with Zoom via a real time API to flag deepfakes during live sessions.

**EqHire – (NLP and Web Scraping Job Search Tool)**

- Developed a full stack platform with Python, Flask, JavaScript, and Bootstrap to address the problem of how company initiatives like **Women in Tech** or diversity fellowships often get overlooked by the people they are meant to support.
- Integrated ChatGPT API and SerpAPI to automatically parse company websites for initiatives, identify job postings at those companies, and return direct application links matched to users' demographics in real time.

## Technical Skills

**Software:** Python, Java, JavaScript, C++, SQL, PyTorch, React, Next.js, Flask, Django

**Libraries:** NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, Bootstrap

**Developer Tools:** Git, Docker, Linux, Power BI, Jupyter, VS Code, Google Cloud Platform, Azure, AWS

**Hardware/Systems:** C, RISC-V Assembly, Verilog, Digital Logic Design, Computer Architecture

## Leadership & Interests

**Leadership:** Founder of MOMA Club (food insecurity nonprofit), GT IM Soccer Team Captain

**Interests:** Soccer, Weightlifting, Reading, Gaming, Wildlife & Outdoors, Gardening, Aquascaping