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 3.6/4.0; 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