Samar Veer Kapoor

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EDUCATION

Georgia Institute of Technology   Atlanta, GA
B.S. in Computer Engineering; GPA: 3.6/4.0   *Expected May 2027*

SKILLS

Languages: Python, Java, JavaScript, TypeScript, C++, C, SQL
Libraries: NumPy, Pandas, Matplotlib, scikit-learn, TensorFlow, PyTorch, OpenCV
Frameworks & Tech: React, Nest.js, Node.js, Flask, Django, REST APIs, Docker, Kubernetes, GitHub Actions
Databases: PostgreSQL, MySQL
Cloud & Tools: AWS, GCP, Azure, Git, Linux, Jupyter, VS Code

EXPERIENCE

NCR Voyix   Atlanta, GA
Software Engineering Intern   *May 2025 – Aug 2025*

- Built endpoints in NestJS and TypeScript for report retrieval from database, improving report access time by **80%**.
- Created a React + Tailwind CSS interface from Figma mockups, ensuring layouts across **10+ device sizes**.
- Proposed and created a PyTorch model to analyze clickstream data and recommend reports in under **3 seconds**.
- Resolved major GitHub Actions failures impacting at least **3 CI/CD pipelines**, reducing failed runs by **95%**.

Visual & Parallel Computing Lab   Athens, GA
Undergraduate Researcher   *Aug 2024 – Jan 2025*

- Set up lab's GitHub profile, CI/CD pipeline, and built website using GitHub Actions, Tailwind CSS, and JavaScript.
- Built a GPU-accelerated PyTorch and OpenCV model for automated coral identification for UGA Ecology team.
- Prepared **15,000+ images** with image annotation in low-light conditions, improving model accuracy by **35%**.

UPS   Atlanta, GA
Software Development Intern   *Jun 2024 – Aug 2024*

- Modernized a 20-year-old workflow for **300+ clients**, migrating to a Microsoft Forms and Power Automate process.
- Developed a Python API and script to transfer form data automatically to database, reducing client configuration time from **5 weeks to under 10 minutes (99.9% faster)**.
- Led **two business analyst interns** in automating form data flow to Excel with Power Automate and creating SOPs.

PROJECTS

ScholarGrind | *Django, Firebase, Google Cloud Platform (GCP), Gemini API*   GitHub Repo

- Built a Gemini API powered study agent that handled **2,000+ queries** with a **5.634s average response time**.
- Developed web app for students to manage learning through AI-generated summaries, flashcards, and quizzes.
- Integrated Google Calendar API and Firebase Authentication for study plans and secure login.
- Integrated Google Maps for group collaboration and locating **10+ study spaces** just on Georgia Tech Campus.

Neural Network Deepfake Detection for Zoom | *PyTorch, ResNet-18, Real-time API*   GitHub Repo

- Built a real-time deepfake detector in PyTorch with a ResNet-18 backbone and trained on **150,000+ face crops**.
- Reached **88% validation accuracy** and integrated a real-time flagging API for Zoom sessions.

Soccer Analytics Platform | *Python, SQL, Flask, Pandas, Docker*   GitHub Repo

- Designed a relational database of **20+ years of global soccer data** and built a REST API to query match stats.
- Implemented data pipelines with Pandas and SQL, automating ingestion and cleaning of **100K+ matches**.
- Containerized the service with Docker and visualized analytics through a Streamlit dashboard.
- Analyzed **25+ match variables** (goals, possession, xG, etc.) across **10+ global leagues** to reveal key insights.

LEADERSHIP & INTERESTS

Leadership: Founder of MOMA Club (food insecurity nonprofit), GT IM Soccer Team Captain
Interests: Soccer, Weightlifting, Reading, Gaming, Wildlife & Outdoors, Gardening