Satchit Seth

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SUMMARY

Ambitious software developer and engineer at Georgia Tech leveraging AI, machine learning, and hardware optimization to streamline workflows and empower users. Experienced in deploying NLP models and leading hardware projects integrating IoT and GPS technologies. Seeking a Software Development Internship for Summer 2025 to apply technical expertise and contribute to impactful projects.

TECHNICAL SKILLS

Programming: Java, C, Python, JavaScript (Node.js, discord.js), HTML/CSS, SQL, Assembly (RISC-V), MATLAB
Frameworks & Tools: AWS (Lambda, Amazon Q), PyTorch, YoloV11, CVAT, Hugging Face, Git, Docker, Unix/Linux, Emacs
Hardware: Raspberry Pi, Arduino, ARM Mbed microcontroller
Languages: English (native), Hindi (native), Urdu (native), Punjabi (native), Spanish (beginner)

EDUCATION

Georgia Institute of Technology   **Atlanta, Georgia**
B.S. in Computer Engineering, 3rd year   *Expected Graduation, Fall 2026*
University of Georgia   **Athens, Georgia**
Completed coursework in B.S. in Computer Systems Engineering and CS minor   *Aug 2023 - Dec 2024*
- **GPA:** 3.79/4.00

RESEARCH

Vertically Integrated Projects: Agricultural Robotics   **Athens, Georgia**
Researcher (awarded scholarship)   *Sep 2024 - Dec 2024*
- Collaborated as **one of nine** selected researchers under Dr. Guoming Li to develop and apply advanced robotics and AI solutions in agricultural settings.
- Technologies used include YOLOv11 for object detection (AI/ML), CVAT for **500+** image datasets, Python scripts via RESTful API interfaced with robotic hardware/real-time camera monitoring detecting/picking eggs in **~5 seconds.**

PROJECTS

Dialectify - *natural language processor*   **Atlanta, Georgia**
Developer   *Personal*
- Engineered a scalable **NLP system** using PyTorch and transformers for dialect detection and translation, achieving a **99%** accuracy rate, improving linguistic accessibility globally.
- Deployed real-time dialect correction with PyTorch, AWS Lambda, and Hugging Face, optimizing for **sub-200 ms** latency and horizontal scaling.

StudySphere - *student-focused exam preparation bot*   **Atlanta, Georgia**
Developer   *Personal*
- Developed an open-to-invite bot using node.js (discord.js) to facilitate **student** study preparation through interactive study aids and real-time assistance via an intuitive command-line-based system.
- Integrated GenAI technology for personalized Q&A and guidance based on the user-uploaded content, enhancing study resource accessibility; built using AWS's Amazon Q service.

ACTIVITIES AND LEADERSHIP

MOMA (Meals for One, Meals for All)   **Alpharetta, Georgia**
Founder   *Aug 2021 – May 2023*
- Founded and grew MOMA, a non-profit tackling food insecurity through innovative food drives, mobilizing **500+** members, and cumulating **250+** volunteer hours across **5+** high schools across Georgia and California.
- Partnered closely with respected nonprofits such as The Place, Meals by Grace, and the Food for Thought Project.

Target   **Suwanee, Georgia**
Team Member   *Jan 2023 - May 2023*
- Developed strong teamwork skills by onboarding and collaborating with colleagues to achieve common goals.