

Ishaan Ranjan

Incoming Georgia Tech CS student (Fall 2026) building applied AI, data pipelines, and web tools

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EDUCATION

Georgia Institute of Technology, Atlanta, GA

Incoming Fall 2026

Georgia Institute of Technology — B.S. Computer Science (AI + Embedded Systems), Expected May 2030

Nominated for Stamps + Gold Scholarship (0.747% Acceptance Rate)

BASIS Peoria, Peoria, AZ

Aug 2022 – May 2026

High School Diploma • GPA: 3.98 UW / 4.84 W

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, HTML/CSS

Software: REST APIs, web scraping/automation (Playwright), Streamlit, data processing (pandas, NumPy)

ML/Data: PyTorch, TensorFlow, Transformers/LLMs, R

Tools: Git/GitHub, Jupyter, Vercel deployment, Arduino/IoT sensor integration

EXPERIENCE

Luxen LLC (Applied AI Lab) — Co-Founder

Dec 2023 – Present

- Built and shipped applied AI products and autonomous agents; led product iteration from user research to deployment.
- Raised \$48K+ in pre-seed support and credits (1517 Fund, SoftBank, BizWorld) and earned 1517 Medici recognition; ran 100+ user interviews.
- Scaled products to 5K+ active users and 1.5M+ media views; launched public apps and demos via luxenai.org.

KEYS Research Intern, Precision Aging Network Lab —

Summer 2025

University of Arizona

- Analyzed vitamin D, omega-3, and exercise interventions against epigenetic aging clocks using R/Python; built reproducible notebooks and plots.
- Presented a poster talk to 800+ attendees.

SELECTED PROJECTS

Debatica

NLP, APIs

Shipped a debate evidence + round-strategy platform (2K+ users) using API integrations and web-crawling pipelines to discover, deduplicate, and organize sources into an evidence workflow.

Link: <https://debatice.org>

S.A.B.E.R. (AZSEF Environmental Engineering)

IoT, AI

Built an AI-automated *Chlorella vulgaris* bioreactor with Arduino-based sensors (pH, turbidity, CO₂/O₂) and a Random Forest controller to regulate pumps and stabilize growth under variable conditions.

Paper: <https://dx.doi.org/10.2139/ssrn.5353655>

Alcohol Policy Impact Atlas

Python, Streamlit

Repo: github.com/IshaanAyaan/alcohol-policy-evaluator

- Built a 51-state (2000-2022) panel dataset and event-study DiD models; automated 15 figures and shipped an interactive Streamlit dashboard.

Know Your Rights AZ (Community Resource Hub)

HTML/CSS

Live: know-your-rights-az-national-honor.vercel.app • Repo: github.com/IshaanAyaan/Know-Your-Rights-AZ-National-Honor-Society

- Mobile-friendly website consolidating rights guidance and Phoenix-area resources from official government and nonprofit sources; distributed via QR codes at partner libraries.

LEADERSHIP

- **Speech & Debate Captain (BASIS Peoria):** Led a 110+ member team; AZ State Champion; NSDA Big Questions ranked #5 nationally.

AWARDS & HONORS

- Georgia Tech: Nominated for Stamps + Gold Scholarship (0.747% Acceptance Rate).
- Speech & Debate: NSDA Big Questions ranked #5 nationally; Arizona State Champion; Nationals qualifier.
- Research/Engineering: AZSEF Grand Award (Environmental Engineering) for S.A.B.E.R. bioreactor project.
- Entrepreneurship: 1517 Fund Medici Grantee; Z Fellows Finalist (2024, 2025).
- Publication: SSRN paper on the Criminal Tribes Act ranked #1 in downloads (Post-Colonial & World Literature eJournal, June–July).
- Academics: ACT 35; SAT 1540; 15 AP exams (14×5, 1×4).
- STEM: Science Olympiad Wind Power — #1 at Gopher Invitational; Top 43 National Economics Olympiad; US Medicine Olympiad — Honorable Mention.