

JAPROZ SINGH SAINI

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EDUCATION

Georgia State University
B.S. in Computer Science

Expected Graduation – Dec 2026

- **Cumulative GPA** – 3.6
- Rocketry Club – Founding member · ATL Sikhs – Executive · Computer Science Club
- **Relevant Coursework** – Deep Learning, Computer Organization, Systems Level Programming, Programming Language Concepts, Calculus of II Variables, Discrete Mathematics, Linear Algebra, Probability & Statistics

PROJECTS

Gecko Python · C++

- Implemented a **custom autograd engine from scratch in both Python and C++**, exploring the internals of automatic differentiation that powers every modern deep learning framework
- Built a **10M parameter GPT Transformer** with self-attention blocks directly from the original paper
- Trained **character-level language models** across multiple architectures – bigram baselines, MLP, and a full Transformer – developing a ground-up understanding of how modern LLMs work

Travel Agency Website TypeScript · NextJS · TailwindCSS

- Built and shipped a **production-grade, full-stack travel agency website** live on Vercel, solving the client's need for a modern online presence by engineering a **Next.js + TailwindCSS** platform from scratch
- Architected a **clean component-based frontend** with shadcn/ui and full **TypeScript type safety**, boosted discoverability with **pagination, dynamic routing, and OG metadata** for SEO and social sharing

Java Class Parser C · Bash · Java

- Built a **fully spec-compliant Java Class file parser in pure C** by reading and implementing Oracle's official JVM Class file format specification cover to cover – no libraries, no shortcuts
- Correctly decoded every section of the binary format – **constant pool, access flags, methods, fields, and attributes** – validated against real-world compiled Java programs
- Wrote a **comprehensive bash test suite** against real compiled Java sample files to catch regressions and edge cases automatically

SKILLS, LANGUAGES, INTERESTS

- **Languages:** English, Hindi/Urdu, Punjabi, Spanish (A2)
- **Programming:** C, TypeScript, Python, C++, Bash
- **Interests:** Systems Engineering, CTFs, Sports, Engines, Artificial Intelligence

HONORS & AWARDS

1st place at AI ATL 2025 — Georgia Institute of Technology Atlanta, GA

- Built a voice-enabled AI platform in 36 hours, winning 1st Place in the Drive Capital Track and earning an opportunity to pitch for up to \$500K investment

1st place at Truist CTF — Truist Bank & Georgia State University Atlanta, GA

- Capture the Flag event organized by Truist Bank where my team came first and won a cash reward of \$2000+

1st place at CodeDay Delhi — CodeDay New Delhi, IN

- Took part in my first hackathon which consisted of around 200 high school students from all over India and won 1st place

EXPERIENCE

Georgia State University Jan 2024 – May 2026
Event Operations Technician Atlanta, GA

- Set up and monitored events for conferences, student organizations, and external clients
- Monitored all activities, reservations, and programs during the designated hours of operation and enforced all building policies and safety regulations.
- Made appropriate decisions regarding behavior and actions, and accepted responsibility for team actions, managed time effectively, acted in a dependable manner, and fulfilled job requirements completely

Georgia State Production Network Sep 2023 – Jan 2024
Engineering Assistant Atlanta, GA

- Helped produce college football and basketball game shows for ESPN & performed camera work and graphics work
- Setup and make sure that equipment like cameras, hardware and networks work as intended
- Handled networking and cable management for music concerts