

Hardik Saini

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EDUCATION

Georgia State University, College of Arts & Sciences

Atlanta, GA

Bachelor of Science | Major: CS | Honors College | GPA: 4.25/Major- 4.3 (Scale – 4.3)

Expected Graduation: May 2027

Certifications : Intermediate Technical Interview Prep | CodePath, Machine Learning Specialization | Andrew Ng, 100 Days of Code | Angela Yu

Technical: Cloud Computing, Slurm, Kubernetes Unix Operability, Git, SQL, Machine Learning, Programming Languages proficiency (Python ,C , Java), Technology Integration, Office 365 SharePoint Administration, System Troubleshooting, Hardware Configuration , Basic CI/CD.

Professional: Initiative and Problem Solving, Technical Troubleshooting, Team Collaboration , User Support and Training , Process Optimization

Relevant Courses: Cloud Computing, Computer Networks, Infrastructure System Design , Software Engineering ,Machine Learning ,Design Analysis & Algorithms, Operating Systems, Software Development, Data Structures, Computer Organization, Discrete Mathematics

PROFESSIONAL EXPERIENCE

ARCTIC–Advanced Research Computing, Technology, Innovation & Collaboration | DevOps Intern | Atlanta,GA July 2025 - Present

- Work with the Infrastructure/DevOps team to operate Linux-based HPC clusters serving 500+ faculty and student researchers, helping maintain 99.99% uptime through proactive monitoring and fast incident response.
- Troubleshoot and resolve 50+ issues related to Slurm job scheduling, file access, storage quotas, and environment modules, improving job success rates and reducing wasted compute time..
- Analyze storage and I/O performance for large research workloads to identify bottlenecks and validate configuration changes for high-throughput data pipelines.
- Help administer Globus Connect Server endpoints used for secure, high-speed terabyte-scale data transfers between GSU and partner institutions.
- Provide technical setup and backend support for workshops and research conferences (accounts, storage, compute access), ensuring reliable demo environments and system availability during live events.

GSU–STEM Tutoring Initiative (Math) & MILE Urban Life | Tutor & Lab Facilitator | Atlanta, GA

June 2024 – July 2025

- Provided one-on-one and group tutoring in algebra, calculus, and statistics to over 800 students, enhancing their understanding of complex mathematical concepts
- Developed tailored learning strategies that simplified problem-solving processes, driving up to threefold improvement in student performance and grades.
- Fostered a positive, engaging learning environment, boosting student confidence and success, resulting in an over 2 times increase in student retention for tutoring sessions.

PROJECT EXPERIENCE

Stockd — AI-Powered Inventory Management + Dynamic Pricing| **Winner** | UGAHACKS11: NCR VOYX Track| Spring 2026

[Link to Project](#)

- Architected a fully serverless backend using PostgreSQL 17 and Supabase RPC, designing 15+ stored procedures (plpgsql) as the entire API layer — including an atomic RPC that processes live POS orders in a single transaction, upserting sales, consuming ingredients via Bill of Materials joins, and decrementing inventory in real-time with zero race conditions.
- Engineered an immutable transaction ledger (RECEIVE, COUNT, CONSUME) with Row-Level Security across 10+ tables, enabling full audit trails, reversible operations, and multi-tenant data isolation while achieving sub-200ms dashboard response times.
- Built a demand forecasting engine using 6-week day-of-week rolling averages (13% MAPE accuracy) and integrated Google Gemini with 32+ function-calling tools, enabling an AI copilot to query inventory, trigger forecasts, and execute write operations through natural language.

Speech Mate – AI-Powered Public Speaking Coach | AI-ATL Hackathon (Georgia Tech) | Fall 2025

[Link to Project](#)

- Built a full-stack app with a React + TypeScript + Vite frontend and a Java 21 / Spring Boot 3 backend, exposing REST APIs for speech generation, multimodal analysis, and text-to-speech.
- Implemented Gemini-powered endpoints using Spring WebFlux (WebClient) to handle video, slides, and notes uploads and return structured JSON with scores, filler word counts, and detailed feedback.
- Integrated Google OAuth 2.0 with Spring Security to secure user accounts and protect analysis and generation endpoints.
- Designed the React UI to display analysis reports, recommendations, and playback audio, creating a smooth practice workflow for users.

LEADERSHIP & PROFESSIONAL DEVELOPMENT

- COSMIC – Community of Students in Science, Math, Innovation, and Computing | President | 2025 – Present
- Recipient of Delta Analytics Scholars Scholarship
- [5 times President's List](#)
- LeetCode | Active Participant | 2024 – Present

INTERESTS

Interests: Tech and Hardware Trends, Finding and Reporting Exploits, PC Building, Technology, Gym, Cricket, Gaming