

# RISHI JAIN

College Park, GA

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## EDUCATION

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### Woodward Academy

Aug. 2023 – May 2027

*High School Diploma (Expected)*

*College Park, GA*

- GPA: 4.94 (Weighted) | SAT: 1530
- National Honor Society (Randolph W. Throver Chapter)
- AP Coursework: Computer Science Principles, Computer Science A, U.S. History, Chemistry, Calculus AB, Physics 1, Macroeconomics, English Language and Composition

## EXPERIENCE

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### Student Leadership Council Member

2026 – Present

*National Speech & Debate Association*

*National*

- Elected to represent 140,000+ NSDA members nationwide through a highly selective process; collaborate directly with NSDA leadership to improve accessibility in speech and debate

### Policy Debate — Team Leader, Coach & Judge

2023 – Present

*Woodward Academy*

*College Park, GA*

- Coached two teams to First and Second Year State Champion and Runner-Up at GFCA State Championships
- Coached one team to First Year National Champion and Best Speaker at National Championships
- Produced 10% of Woodward Varsity's total research output (1,500+ evidence cards) in 2024–2025, anchoring the team's competitive preparation across Fiscal Redistribution, IP, and Arctic Development topics
- Led team to national championships, state championships, and national circuit tournaments across four years

### Founder & President, FlintAI Club

2025 – Present

*Woodward Academy*

*College Park, GA*

- Founded and lead the school's AI Club, a subset of the Technology Club, training students to use FlintAI (the school's official AI tool) to navigate academic challenges without shortcuts
- Developed curriculum emphasizing responsible, educational AI use across homework, studying, and time management

### FlintAI Ambassador

2025 – Present

*FlintAI*

- Selected through a competitive rolling application to represent FlintAI as an Ambassador, advocating for responsible AI in education; authored a guest blog post on AI as a draft reviewer for student writing
- Worked directly with CEO Sohan Choudhury to provide product feedback that was implemented in FlintAI's token usage and whiteboard interaction systems

### Legislative Page

2026

*Office of the Lt. Governor of Georgia*

*Atlanta, GA*

- Served Lt. Governor Burt Jones, observing floor votes, relaying stakeholder communications, and gaining direct exposure to the legislative process and policy debates affecting Georgia communities

### Math Team Captain

2025 – Present

*Woodward Academy*

*College Park, GA*

- Collaborated with other captains to lead a competitive team through local and national mathematics competitions; coordinate practice, develop strategy, and mentor teammates in algebra, combinatorics, and number theory

### Peer Leader

2026 – Present

*Woodward Academy*

*College Park, GA*

- Selected to guide incoming freshmen through the transition to Upper School, fostering community and personal growth across 18 weeks of structured peer mentorship

## PROJECTS

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### CodeFlow | *Qwen3-Coder, LoRA, llama.cpp, GGUF*

2026

- Built for the Hugging Face Build Small Hackathon 2026: a fully local tool that turns source code into animated control-flow flowcharts, with every node linked back to the exact source lines it came from
- Runs a LoRA fine-tune of Qwen3-Coder-30B-A3B (a Mixture-of-Experts model with ~3.3B active parameters per token) on CPU via llama.cpp as a ~3-bit GGUF, fine-tuned on 2,400 synthetic code-to-flowchart pairs

### Deep Reinforcement Learning Suite | *PyTorch*

- Implemented a suite of deep reinforcement learning algorithms from scratch in PyTorch, solving a range of control and game environments:
- Bipedal Walker — SAC, DDPG, and TD3 across the Easy and Hardcore environments
- Lunar Lander — PPO and REINFORCE for continuous-control physics navigation
- Flappy Bird — Deep Q-Learning with Dueling and Double DQN extensions
- Blackjack — Group-Relative Policy Optimization (GRPO) and Robust Policy Optimization (RPO) on Gymnasium's Blackjack-v1
- chessMAPPO — Multi-Agent PPO (MAPPO) self-play between white and black agents, built on python-chess and PettingZoo

### Hindi-English Neural Machine Translator | *PyTorch, Transformer*

- Built an end-to-end Hindi-English neural machine translator with a Transformer architecture implemented from scratch in PyTorch, including a custom SentencePiece tokenizer, rotary positional embeddings (RoPE), and beam-search decoding

### Hybrid RAG System | *LLM, RAG*

2026

- Built a hybrid rules-based + LLM retrieval-augmented generation (RAG) system solo in 24 hours at HackerRank Orchestrate 2026; classifies user input, retrieves relevant chunks from a support corpus, and generates grounded responses while mitigating prompt injection and hallucination
- Placed #298 of 1,349 experienced AI engineers and undergraduate competitors

### DebateSearch | *Full-stack web app*

- Built a full-stack web app that surfaces hidden debate round videos and integrates AI-powered recommendations to improve accessibility for debate students

### hwagent.org | *PostgreSQL, Render, Cloudflare*

- Built a full-stack student dashboard aggregating assignments and assessments, with a secure PostgreSQL login system deployed via Render and Cloudflare

## OPEN SOURCE & TECHNICAL WRITING

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Contributed to **Deep-ML** (deep-ml.com), an open platform of interview-style machine learning coding problems, as an open-source contributor

Produced machine learning problem walkthrough videos on my **YouTube channel**, solving difficult ML problems frequently asked in technical interviews

Authored an ongoing technical blog documenting AI project development and conceptual deep dives across reinforcement learning (PPO, GRPO), world models, and deep-learning fundamentals; published on personal website

## HONORS & AWARDS

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### Debate & Competitive Speech

- **University of Michigan Debate Fellowship** (2026) — Selected as one of 12 nationwide recipients of a full-tuition fellowship to the University of Michigan Seven-Week Seniors Lab, recognizing top achievement in research, analytical reasoning, and persuasive argumentation
- **Varsity Policy Debate Georgia State Champion** (2026) — #1 policy debate team in Georgia; second time in history Woodward won First Year, Second Year, and Varsity titles in a single year

- **National Ranking: #18** nationally among all high school policy debate teams (Coaches Poll, 2026)
- **First Year National Champion** (2024) — Won 9 consecutive debates; unanimous 3-0 final round decision
- **Second Year National Runner-Up** (2025) — Won 7 rounds against top national teams
- **Second Year Georgia State Co-Champion & Top Speaker** (2025)
- **First Year Georgia State Co-Champion** (2024)
- **Tournament of Champions: 4 Bids** accumulated (2026)

### Academic Honors

- **Gold Eagle Honor** (4 years) — awarded for maintaining a cumulative GPA of 3.80+ at Woodward Academy
- **National Recognition Program, CollegeBoard** (2026)
- **AP Scholar with Distinction, CollegeBoard** — awarded for an average score of 3.5+ across all AP exams and scores of 3+ on five or more
- **NSDA Academic All American** (2026) — Awarded to 33 students in Woodward history
- **NSDA Outstanding Distinction** (2026) — 1,255+ points for participation, judging, and coaching
- **Georgia Certificate of Merit** — awarded to students in the top 10% of their class, recognizing superior scholastic achievement across the first three years of high school
- **Phi Beta Kappa Award** — selected by faculty for academic breadth, leadership, and love of learning; awarded *Atlanta in 100 Objects* by the Atlanta Alumni Association of Phi Beta Kappa

### COMMUNITY & SERVICE

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#### Debate Judge & Coach

2023 – Present

*Atlanta Urban Debate League (AUDL)*

*Atlanta, GA*

- Volunteered to judge middle school debates for the AUDL, providing detailed, constructive feedback to develop argumentation and critical thinking in underserved student communities
- Judged and coached at the Middle School Tournament of Champions — one of the most competitive middle school tournaments nationally — despite most experienced judges declining these rounds
- Coached teams to champion and runner-up finishes at GFCA Second Year State Championships
- Coached a team to win the First Year National Championship and earn the Top Speaker award

#### Debate Judge

2026

*Emory National Debate Institute*

*Atlanta, GA*

- Judged high school debaters entering policy debate at the Emory National Debate Institute, providing detailed feedback that helped these students grow as speakers, critical thinkers, and researchers

#### PeerKonnnect Tutor

2026

*PeerKonnnect*

- Provided personalized academic support through a peer tutoring platform; helped students improve grades by a full letter grade and fostered a stronger sense of school community

#### South Asian Affinity Club

2023 – Present

*Woodward Academy*

*College Park, GA*

- Four-year member; organized cultural events celebrating South Asian heritage and promoting cross-cultural understanding within the school community

### ACTIVITIES

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#### Science Olympiad

2023 – Present

*Woodward Academy*

*College Park, GA*

- 4th Place, Machines event — University of Georgia Invitational (2026); designed a dual-lever mechanical device and excelled in technical examination on simple machines
- Developed key chemistry and cryptography resources that contributed to team's state championship qualification

#### Quiz Bowl

2023 – Present

*Woodward Academy*

*College Park, GA*

- Four-year member of a team that reached the national championship; rapid recall across history, science, literature, mathematics, arts, and current events

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, Java, SQL

**Frameworks:** Node.js, PyTorch

**Libraries:** NumPy, Pandas, scikit-learn

**Tools:** Render, Cloudflare, GitHub, Vercel, Upstash, CronJob

**AI / ML:** PyTorch, RAG systems, LLM integration, Prompt injection mitigation, Machine Learning fundamentals (Helsinki / MinnaLearn, FreeCodeCamp)

## CERTIFICATIONS & TRAINING

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**Arduino Certification in Electronics & Physical Computing** — passed formal 36-question assessment (April 2026)

**Building AI** (University of Helsinki / MinnaLearn) and supplementary AI coursework (FreeCodeCamp): machine learning, optimization, probability, and neural networks with a real-world final project

Self-studied **PyTorch**, a leading deep learning framework used in AI research and industry