

RISHABH GOEL  
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Curious and driven technologist who blends math, code, and creativity to explore complex ideas. Passionate about scientific discovery, mentoring peers, and making hard concepts approachable.

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## EXPERIENCE & PROJECTS

ZeroClone — Open-Source Creator | Apr 2025 – Present

- Building a modular, approachable alternative to DeepMind AlphaZero for perfect-information games (C++ / PyTorch).
- Implemented batched-GPU self-play pipeline and plug-and-play game adapters.

Rock Ridge HS Competitive Programming Club — President | Sep 2021 – Jun 2025

- Led and coached 15 members; placed Top-10 in multiple Chesapeake-region university contests.
- Organized weekly problem-solving workshops and collectively solved 30+ 1800 rated problems on Codeforces.

Yogic Transformers FTC Robotics Team — Autonomous Algorithms Lead | Sep 2021 – Jun 2023

- Developed sensor-fusion & vision pipelines for fully autonomous navigation; qualified for state semi-finals twice.

Quantiphi — Machine Learning Engineer Intern | Jun 2020 – Jul 2020

- Prototyped a computer-vision research project under senior mentorship and presented findings to leadership.
- Delivered a reproducible pipeline (TensorFlow + GCP) that served as template for future intern cohorts.

MyExamsPrep — Math Tutor | Feb 2025 – May 2025

- Tutored multiple students in topics ranging from basic algebra to calculus

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## EDUCATION

Rock Ridge High School, Ashburn VA — High School Diploma | Sep 2020 – Jun 2025

Relevant coursework: AP Physics C, AP Calculus BC, AP Statistics, AP Computer Science A

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## SKILLS

Programming Languages: Python • C++ • Java • Bash/Zsh • Embedded C/C++ (Arduino)  
AI / ML & Data: PyTorch • Reinforcement Learning (MCTS, self-play) • NumPy/Pandas  
Systems & DevOps: Linux admin • Docker • CMake/build pipelines • Git/GitHub  
Math & Science: Mechanics • Electromagnetism • Probability/Statistics • Calculus  
Agentic Coding: Claude Code • Codex

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## ADDITIONAL

• Interests: particle physics, deep learning, Transcendentalist philosophy (Emerson, Thoreau, etc), flute performance, character-driven cinema ("Whiplash," "The Pianist").