Taha Rawjani

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EDUCATION

Academies of Loudoun, Independence High School — Leesburg, VA
Information Technology Pathway, 3.97/4 GPA, 1540 SAT — *Aug. 2022 – June 2026*
– Courses: Machine Learning, AP Computer Science, Multivariable Calculus, AP Statistics, AP Calculus BC

EXPERIENCE

Maximus- Software Engineering Intern — Tysons, VA
Building Agentic AI for Scaleable Adaptation — *Jun. 2025 – Present*
– Scaling secure AI agents built with AWS Bedrock to work across a variety of CCaaS solutions.
– Created a novel method to classify email intents, reroute emails, and autonomously respond – reducing contact center agent resolve times by 25%
– Made the pipeline fully automatable and cuztomizable through a JSON file alongside a GUI configuration tool.
– Used Amazon Connect Cases to track metrics for an analytics dashboard, showcasing metrics such as FCR.

ACL Competitive Programming Club- Co-Founder, President — Leesburg, VA
Creating a Community of Critical Thinkers — *Aug. 2023 – Present*
– Grew club from 0 to 80+ members, organized teams & logistics for 10+ programming competitions such as PClassic, MITIT, CALICO, Codequest, UVA HSPC, UMD HSPC, etc.
– Led weekly lectures on algorithms and problem-solving. Topics include Dynamic Programming, Graph Theory, Trees, Prefix Sums, Segment Trees, etc.

Independence HS Science Olympiad- President — Brambleton, VA
Exploring the World of Science — *Aug. 2022 - Present*
– Led club to its first state appearances in 2024 and 2025. Helped win first regional trophy for school in 2025.
– Placed top 5 10x in Optics, Ecology, Fermi Questions, and Chemistry Lab across 2 years.

AWARDS

MobyGlobal: Real-Time Whale Detection Network — *Oct. 2024 - May 2025*
– Developed and tested a real-time AI-powered whale tracking network using a system of buoys (patent pending).
– Used Tensorflow and Pytorch for ML, ESP32 and C++ for buoy systems, and Fusion360 for buoy design.
– Won 1st at LCPS RSEF, 3rd at VSSEF, 2nd at VA TSA States, and 4th at ISEF with a Special award.

Competitive Programming Contests — *Aug. 2023 - Present*
– Reached a Codeforces rating of 1700 and USACO Gold, top 5% globally; 1200+ problems solved across platforms such as AtCoder, Leetcode, USACO, and Codeforces.
– 1st place in Classic Division out of 50+ teams - PClassic Fall 2024 programming competition hosted at UPenn.
– 1st place in Advanced Division out of 30+ teams - Lockheed Martin Codequest 2024 at Manassas, VA.
– 2nd place out of 25 teams - UMD High School Programming Competition 2024 in College Park, MD.

PROJECTS

neo-OS — *Jul. 2022 - Aug. 2023*
– An operating system written from scratch in C++ and assembly, featuring custom drivers, a UNIX-based virtual file system, multithreading support, and an interactive shell with a simple scripting language (TahaScript).
– Programmed a custom image format (.nic) with 24-bit color support alongside font and VGA drivers
– Created drivers for hard drives (AHCI), floppy disks (FDC), timers (PIT, APIC), and interfaces (PS/2, PCI)

Braindead 2DS — *Mar. 2023 - May 2023*
– A Counter Strike inspired 2D shooter made in bare-bones Java Swing. Includes a custom-built game engine, input system, rendering pipeline, UI Engine, level loader/editor, and a custom map file format.
– Programmed bots that use A* combined with a Greedy Algorithm to play alongside the player in a 5v5 CS:GO style game mode.

Skills & Interests

Programming: C, C++, Unity C#, x86 Assembly, Java, Python, JavaScript, HTML/CSS
Technologies: Git, Pytorch, AWS (Bedrock, S3, Lambda, EC2), Embedded Systems, Next.js, React
Languages: English (fluent), Urdu (native), Spanish (semi-fluent), Arabic (read/write)