

# Taha Rawjani

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## EDUCATION

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### Academies of Technology, Independence High School

Leesburg, VA

4.0 GPA, 1540 SAT, Summa Cum Laude

Aug. 2022 – June 2026

- Courses: Machine Learning, AP Computer Science, Multivariable Calculus, AP Statistics, AP Physics C

## EXPERIENCE

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### Maximus – Software Engineering Intern

Tysons, VA

Building AI for Contact Centers

Jun. 2025 – Present

- Created an AWS pipeline to classify email intents, reroute emails, and autonomously respond with AI – reducing contact center agent resolve times by up to 25%.
- Used AWS Connect, Lambda, Bedrock, EC2, Cloudwatch, and Kinesis
- Made the pipeline fully automatable and customizable through a JSON file alongside a GUI configuration tool.
- Pitched final product to Maximus CTO & IT Team, and showcased at an Amazon Web Services conference.

### Blueprint AI – Software Engineering Intern

San Francisco, CA

Automate Viral Social Media Marketing

Mar. 2025 – Jun. 2025

- Automated social media (TikTok and IG) marketing with AI. Used Supabase, Next.js, Langgraph, and HeyGen.
- Built product URL webscraper & video generation API backend using remotion video creator
- Recieved Y-Combinator Interview, hit 2000+ users peak and \$3,000+ Monthly Revenue

### ACL Competitive Programming Club – President

Leesburg, VA

Solving Cool Problems

Aug. 2023 – Present

- Grew club from 0 to 100+ members, organized teams & logistics for 10+ programming competitions. Led weekly lectures on algorithms and problem-solving. Top 0.1% blogger on CodeForces.
- Organized Academies-IT, LCPS's first competitive programming tournament. Raised \$3000 in prizes & sponsorships, and hosted 120+ attendees. Managed 20+ volunteers & on-site logistics.

## RECOGNITION

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### MobyGlobal: AI Whale Tracking

Oct. 2024 - May 2025

- Developed and tested a real-time AI-powered whale tracking network using 3d-printed buoys (patent pending).
- Used Tensorflow and Pytorch for ML, ESP32 and C++ for buoy systems, and Fusion360 for buoy design.
- Won 4th at International Science & Engineering Fair 2025, and accepted to Ocean Sciences Meeting 2026

### Competitive Programming & CTFs

Aug. 2023 - Present

- Codeforces Expert and USACO Gold Division; 1500+ problems solved across AtCoder, Leetcode, USACO, and Codeforces. Top 0.1% blogger on Codeforces.
- 1st place, Advanced Division, Lockheed Martin CodeQuest 2024 Manassas programming competition.
- 1st place in Category, 4th Overall, National Cyber League Team Round Fall 2025

## PROJECTS

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### Neo OS

Jul. 2022 - Aug. 2025

- 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\* pathfinding to play alongside the player in a 5v5 CS:GO style game mode.

## SKILLS & INTERESTS

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**Programming:** C, C++, Unity C#, x86 Assembly, Java, Python, JavaScript, HTML/CSS

**Technologies:** Git, Pytorch, AWS (Bedrock, S3, Lambda, EC2), Linux, Next.js, React

**Languages:** English (fluent), Urdu (native), Spanish (semi-fluent), Arabic (read/write)