Taha Rawjani

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EDUCATION

Academies of Loudoun, Independence High School — Leesburg, VA
4.0 GPA, Summa Cum Laude — *Aug. 2022 – June 2026*
- Relevant Courses: Machine Learning, AP Computer Science, Multivariable Calculus, AP Statistics, AP Physics C

EXPERIENCE

MobyLabs.org – Cofounder & CTO — Leesburg, VA
Real-time AI-powered whale tracking network using 3d-printed buoys — *Jan 2025 – Present*
- Used Tensorflow, Pytorch for ML. ESP32 w/ C++ for buoy systems, Fusion360 for buoy design (patent pending).
- Built Landing Page & open API with Supabase, Next.js. Automated emails with Resend & ImprovMX.
- Won 4th at International Science & Engineering Fair 2025, and accepted to Ocean Sciences Meeting 2026

Maximus – Software Engineering Intern — Tysons, VA
Building AI automation for contact centers — *Jun. 2025 – Aug. 2025*
- 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.mov – Founding Software Engineer — San Francisco, CA
Fuel dead internet theory by automating 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 (and writing) 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

Competitive Programming & CTFs — *Aug. 2023 - Present*
- Codeforces Expert, USACO Gold; 1500+ problems solved. Top 0.1% blogger on Codeforces.
- 1st place Advanced Division @ Lockheed Martin CodeQuest 2024; 1st place @ UPenn PClassic Fall 2024
- Team USA for International Informatics Olympiad in Teams (IIOT) 2025
- 1st place in Category, 4th Overall, National Cyber League Team Round Fall 2025

PROJECTS

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)

SKILLS & INTERESTS

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)