

Nash Pillai

✉ nash.pillai@protonmail.com
🌐 nashpillai.com

in nash-pillai
🔄 nash-pillai

📍 Fishkill, NY
☎ (845) 513-6067

Current 11th-grade student who who is interested in pursuing a career in penetration testing. Interests include cybersecurity which stemmed from attending Defcon 2023. I love learning about how computers work and how to break them. I've been coding for nearly a decade and use Linux (NixOS) as my primary operating system.

Education

2021 – 2025 **John Jay High School** Ranked 3rd of 477, GPA: 102.3
Notable Courses: AP World History, AP Statistics, AP Biology, AP US History, AP Chemistry, AP Microeconomics, AP Macroeconomics, AP Language and Composition, PLTW Principles of Engineering, Astronomy.

Leadership

Director of Web Development, DeAP Learning Labs. Aug 2023 – Present

- Managed a team of developers to create the frontend and backend of `deaplearning.com`, offering AI tutors for AP courses
- Created secure and reliable authentication and payment systems (Stripe)

President, John Jay Robotics Club (Jaybots FTC #16700). May 2024 – Present

Programming Leader & JV Team Mentor/Coach June 2022 – May 2024

Bluebirds (JV Team) Team Captain Sep 2021 – June 2022

- Organized and ran numerous workshops for CAD, coding, AI, ML, circuits, and Lego.
- Created a fully featured inventory management system including user management, admin panel, tracking the usage of thousands of parts from several suppliers across multiple projects, and using web scrapers to update info.
- Wrote a custom I2C driver and a custom event loop implementation.
- Extended an open-source dashboard to allow us to visually draw robot paths and test them in real-time.
- Created image processing pipelines in OpenCV to allow robot to score autonomously.

Math Team President John Jay Math Honor Society May 2024 – Present

Math Team Vice President John Jay Math Honor Society June 2023 – May 2024

- Organized and ran meetings while managing finances, meeting minutes, and attendance.
- Explained advanced mathematical concepts to new members.

President John Jay History Honor Society. June 2023 – Present

Vice President John Jay History Honor Society. June 2023 – Present

- Created the club website (`jjhhs.vercel.app`) to promote membership and showcase our accomplishments.
- Created an online database of local gravesites to help with historical research.

Skills

Programming Python, OpenCV, CSS, Typescript, React, Next.js, Tailwind CSS, MongoDB, Kotlin, Java, SQL, Git, Qiskit
Other Excel, Onshape CAD, NixOS, Linux System Management.

Awards and Achievements

2024 **CMIMC (Carnegie Mellon Coding Competition)**, 6th place overall of 96 teams
Lockheed Martin CyberQuest, 2nd place at Stratford, CT
USNCO (National Chemistry Olympiad), Advanced to Nationals and had highest score in Mid-Hudson Region
FTC Robotics World Championship, advanced as Dean's List Finalist.
Control Award Winner, 1st Place at FTC Robotics State Tournament. Awarded for best robot code.
New York State Math League, 2nd highest score in my school
Science Olympiad State Competition, 1st place Robot Tour, 8th place Engineering CAD, and 7th place Forensics

2023 **Congressional App Challenge Winner**, submitted Progress in Congress (`progressincongress.org`).
Presented to members of Congress at the Capitol building during the annual House of Code Event
Control Award Winner, 1st Place at Peekskill FTC Robotics Tournament.
Science Olympiad, Placed 1st Forensics and Chem Lab at regionals and 7th in Forensics at States
USNCO (National Chemistry Olympiad), Highest score in John Jay and was paid to compete at Nationals

2022 **AP CSA**, Self-studied and received a score 5.
Lockheed Martin CodeQuest, 8th place US Virtual East