

Nash Pillai

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Education

- 2025 – 2027 **Georgia Institute of Technology, B.S. Computer Science (Concentrations: Cybersecurity and AI)** GPA: 4.0
Honors Program and GreyHat (cybersecurity club)
Coursework: Object Oriented Programming, Data Structures and Algorithms
- 2021 – 2025 **John Jay High School, Ranked 3rd of 500** GPA: 103.6
Found sensitive documents publicly exposed on district CDN and reported it to school administration
Found and reported student info (SAT score, GPA, college decisions) published without proper anonymization

Experience

- Director of Web Development, Ember Learning** Aug 2023 – Present
- Created an AP Exam Simulator for the Ultimate Review Packet that generated **\$400k** and was used by **160k students**
 - Led a team of developers to create the frontend and backend of deaplearning.com, offering custom-trained AI tutors for AP courses and grew site to **300k users** and **\$10k ARR**
 - Used **Railway** and **Azure** to manage networking and infrastructure for server, database, and AI
 - Built emberlearning.org, creating AI teaching assistants for any lesson and the scale of entire school districts
- President & Programming Leader, John Jay Robotics Club (Jaybots FTC #16700).** June 2022 – May 2025
- Led team to qualifying and competing at the **World Championship** for the first time in club history
 - Organized and ran **dozens of community workshops** for CAD, coding, AI, ML, digital circuits, 3D printing, and more.
 - 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 **Kotlin** and **Java** code for Auto and Driver-Controlled robot operation, including a custom **I2C driver** and a custom **event loop** implementation.
 - Created image processing pipelines in **OpenCV** to allow the robot to score autonomously.
- Independent Contractor Stapplet LLC** June 2025 – Present
- Fixed numerous issues in the existing AP Statistics interactive website (stapplet.com) with 100k daily active users.
 - Found and fixed a privilege escalation vulnerability allowing any student to become admin.
 - Created modern React-based reimplementations of the website at stapplet.nashpillai.com.

Skills

Backend Python, SQL, PostgreSQL, Azure, Node.js, Java, Kotlin, OpenCV, MongoDB, Git, Qiskit
Web Typescript, React, Next.js, Tailwind CSS, CSS, Prisma, Stripe
Other Linux System Management, NixOS, Bash, Excel, Onshape CAD, HAM Radio (Technician License)

Awards and Achievements

- 2025 **Lockheed Martin CyberQuest**, 2nd place at Stratford, CT
Control Award Winner (best robot code), 1st Place at Albany FTC Robotics Tournament.
- 2024 **CMIMC (Carnegie Mellon Coding Competition)**, 6th place overall of 96 teams
Lockheed Martin CyberQuest, 2nd place at Stratford, CT
FTC Robotics World Championship, advanced as Dean's List Finalist.
Control Award Winner (best robot code), 1st Place at FTC Robotics State Tournament.
Science Olympiad State Competition, 1st place Robot Tour, 8th place Engineering CAD, and 7th place Forensics
Hudson Valley Digital Rally Hackathon, 1st place
- 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 (best robot code), 1st Place at Peekskill FTC Robotics Tournament.