



in linkedin.com/in/nash-pillai d github.com/nash-pillai d

•	Fishkill, NY
$\left[\underline{\oplus} \right]$	US Citizer

Education

2025 – 2027 **Georgia Institute of Technology**, B.S. Computer Science (Concentrations: Cybersecurity and Al) GPA: 4.0 Honors Program and Sponsorship Manager of GreyHat (cybersecurity club) Coursework: Object Oriented Programming, Data Structures and Algorithms, Linear Algebra

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 dev team to design and ship the frontend and backend of <u>deaplearning.com</u> (custom-trained AI tutors for AP courses), and scaled to 300k users and \$10k ARR
- Deployed and maintained server, database, and AI infrastructure and networking on Azure and Railway
- Building emberlearning.org, creating AI teaching assistants for any lesson and the scale of entire school districts
- Integrated telemetry and observability using Sentry and Posthog and ran A/B testing for user retention

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.
- Engineered production-grade robot control software in **Kotlin and Java**, including a custom drivers and event loops, improving reliabilty and performance.
- Created image processing pipelines in OpenCV and integrated with multiple sensors to allow autonomous scoring.

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 reimplementation of the website at stapplet.nashpillai.com.

Skills

Backend Python, Java, Kotlin, Gradle, Docker, SQL, PostgreSQL, Node.js, OpenCV, MongoDB, Git

Web Typescript, Javascript, React, Next.js, Redux, Tailwind CSS, CSS, Prisma, Stripe

DevOps Linux, NixOS, Azure, Bash, CI/CD, Docker

Awards and Achievements

Al Atlanta Hackathon, Won 1st in PrizePicks (Next-Gen Game Flow) and Matt Steele (Best Data Hack) Tracks with swishhh.tech IBM Certified Cybersecurity Analyst

 $2 \times$ Lockheed Martin CyberQuest, 2nd place at Stratford, CT

Lockheed Martin CodeQuest, 8th place in Eastern US Virtual

CSAW CTF Qualifier, 13th in North America, competed on Greyhat team

FTC Robotics World Championship, advanced individually as Dean's List Finalist.

 $3\times$ Control Award Winner (best robot code), 1st Place at FTC Robotics State Tournament, Albany, & Peekskill.

CMIMC (Carnegie Mellon Coding Competition), 6th place overall of 96 teams

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

Science Olympiad NY State Competition, 1st place Robot Tour, 1st place Forensics, and 8th place Engineering CAD Hudson Valley Digital Rally Hackathon, 1st place