

# Nash Pillai

✉ [nash.pillai@protonmail.com](mailto:nash.pillai@protonmail.com)

in [linkedin.com/in/nash-pillai](https://www.linkedin.com/in/nash-pillai)

github.com/nash-pillai

📍 Fishkill, NY

🇺🇸 US Citizen

## EDUCATION

---

**Georgia Institute of Technology**, B.S. Computer Science (Honors), *Concentrations: Cybersecurity & AI* 2025 – 2027

- Coursework: Object Oriented Programming, Data Structures and Algorithms, Design and Analysis of Algorithms, Linear Algebra, Multivariable Calculus GPA: 4.0

**John Jay High School**, Ranked 3rd of 500, GPA: 103.6 2021 – 2025

- Found sensitive documents publicly exposed on district CDN and reported to school administration
- Found and reported student info (SAT score, GPA, college decisions) published without proper anonymization

## 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, GCP, Bash, CI/CD, Docker

## 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 [deaplearning.com](https://deaplearning.com) (custom-trained AI tutors for AP courses), scaling to **300k users** and **\$10k ARR**
- Deployed and maintained server, database, AI infrastructure, and networking on **Azure** and **Railway**
- Building [emberlearning.org](https://emberlearning.org), creating AI teaching assistants for any lesson at the scale of entire school districts
- Integrated **telemetry** and **observability** using Sentry and Posthog and ran **A/B testing** for user retention

**CTF Team Captain & Sponsorship Manager** | GreyHat (Cybersecurity Club) Aug 2025 – Present

- Led team that built an LLM-based CTF solving agent, with automated self-training based on writeups
- Competed in multiple CTFs, including CSAW (13th in North America), corCTF (top 10%), and Buckeye CTF
- Gave multiple talks and ran workshops for the club

**President & Programming Leader** | John Jay Robotics Club (Jaybots FTC #16700) June 2022 – May 2025

- Led team to qualify and compete at **World Championship** for the first time in club history, winning #1 Judge's Choice
- Implemented Kalman filters to combine multiple sources of sensor data and minimize noise
- Organized and ran dozens of community workshops for CAD, coding, AI/ML, digital circuits, 3D printing, and more
- Built a full inventory management system with user management, admin panel, part tracking across projects, and web scrapers to update supplier info
- Engineered production-grade robot control software in Kotlin and Java, including custom drivers and event loops
- Created image processing pipelines in OpenCV and integrated multiple sensors for autonomous scoring

**Independent Contractor** | Stapplet LLC June 2025 – Present

- Fixed numerous issues in the existing AP Statistics interactive website ([stapplet.com](https://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](https://stapplet.nashpillai.com)

## AWARDS AND ACHIEVEMENTS

---

- **IBM Certified Cybersecurity Analyst**
- **BSides Atlanta**, 1st place in CTF, youngest of 400+ attendees
- **AI Atlanta Hackathon**, 1st in PrizePicks (Next-Gen Game Flow) and Matt Steele (Data Hack) tracks with [swishhh.tech](https://swishhh.tech)
- **2x Lockheed Martin CyberQuest**, 2nd place at Stratford, CT
- **Lockheed Martin CodeQuest**, 8th place in Eastern US Virtual
- **FTC Robotics World Championship**, advanced individually as Dean's List Finalist
- **3x 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**, built [Progress in Congress](https://progressincongress.com)  
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, 8th place Engineering CAD