

Aarush Kumar

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EDUCATION

Bachelor of Science in Computer Science Expected May 2029
GPA: 4.0
Macaulay Honors College at The City College of New York | New York, NY

High School Diploma with Honors June 2025
GPA: 4.0
Manhattan Center for Science and Mathematics | New York, NY

EXPERIENCE

Vernato June 2025 – Present
Remote
Founder and Developer

- Built an AI pronunciation platform using Azure Speech SDK to deliver unmatched phoneme-level analysis and assessment across 30+ languages and their regional variants
- Created VoiceGuru chatbot with Google Gemini for personalized coaching and adaptive learning
- Implemented IndexedDB caching + automated cleanup, reducing Vercel transformations by ~90%
- Added TOTP-based multi-factor authentication (MFA) and CSRF protection to secure audio recordings

Simplify Me. Dec 2023 – May 2025
New York, NY
Founder and Developer

- Created a platform to simplify privacy policies using ToS;DR framework + AI-generated summaries
- Built WordPress backend with trending system, Zapier automations, and Discord bot for file processing
- Presented to Artificial Intelligence class at The City College of New York under instructor Sam Kessler

EMTY Commuting App Aug 2024 – April 2025
New York, NY
Lead Developer and App Designer

- Designed UX in Figma to display real-time subway car occupancy; built secure real-time backend with Firebase Auth and Realtime Database
- Presented EMTY at the U.S. Capitol and to Congressman Adriano Espaillat's office

Veritas AI Sept 2024 – Nov 2024
Remote
AI Scholar

- Led group capstone to customize convolutional neural networks for object detection on CIFAR-10
- Collaborated with Harvard Computer Science PhD candidate Jason Jabour to train and validate the model and achieve 98.64% test accuracy

VOLUNTEERING

Ranger Conservation Corps Oct 2024 – Dec 2024
New York, NY
Volunteer

- Participated in restoration projects in four Manhattan parks, including the removal of invasive species
- Gained hands-on experience with traditional Lenape conservation techniques while contributing to the preservation of New York City's tribal and natural history

HONORS & AWARDS

- First Place, Congressional App Challenge (NY-13) for EMTY
- AP Scholar with Distinction

TECHNICAL SKILLS

Languages | TypeScript, JavaScript, HTML (Proficient); Python (Intermediate); C++, Swift (Beginner)

Frameworks & Tools | Git, Vercel, Firebase, Azure, AWS, Google Cloud, Zapier, WordPress, Next.js, Tailwind CSS