

Education

- Moorestown High School, Moorestown, NJ (Class of 2026)
- LaunchX Entrepreneurship Summer Program at North Carolina State University (Summer 2023)
- INSPIRITAI Summer Scholars Program (Summer 2023)
- Principles of Management Course, Rowan College at Burlington County, Mount Laurel, NJ (2022-2023)
- Formal Hindi Education, HindiUSA (2013-2022)
- Formal Piano Education (2013-2024)

Business Experience

Entrepreneur, AK Soles, Moorestown, NJ

March 2020 - Present

- Founder and owner of online limited-edition sneakers reselling business (www.adicooks.com), with over \$375 K in revenue and net profit of \$130K in the last 4+ years.
- Leverage cloud computing technology, social media, e-commerce, network with customers and end users to scale business.
- Optimize merchandising and grow margins by tracking and observing market trends and implementing promotional approaches to increase sales and profits.
- Analyze product supply & demand, update inventory of online store, manage business accounting, conduct quarterly P&L analysis, provide exceptional customer service, and continually network with shoe stores nationally to grow business.

Technology/ Research Experience

Software Development Intern, Perelman School of Medicine, University of Pennsylvania

August 2024 – Present

- Working with Center for Biomedical Image Computing & Analytics (CBICA) researchers to independently develop a mobile app for NiChart, a neuroimaging chart of AI based imaging biomarkers.
- Utilizing machine learning libraries, Swift, Python, Amazon Web Services (AWS), and XCode for app development.

Research Project #1

May 2024 – Present

- Developed low-cost, real-time gunshot and firearm detection prototype system, *AlertNow*, using multi-modal deep learning models (CNN and YOLOv8) aimed at preventing potential gun violence and enhancing school safety.
- *AlertNow* will be presented at various 2025 STEM competitions and will be submitted for publication in a peer-reviewed journal.

Research Project #2

August 2022 – April 2024

- Designed and developed a fully functional, low cost, mobile app-based, wearable, real-time alert prototype system, *SeniorConnect*, to connect senior population with cognitive disabilities to their caregivers. This innovative prototype addresses critical caregiving challenges, and efforts are underway to assess its commercial viability and market potential.
- Leveraged AWS cloud computing services and Python language to program IoT device for sending real-time notifications to mobile app. Built iOS App using Swift programming language and integrated with IoT device for alert notifications to caregiver mobile phone.
- Presented prototype solution at various science competitions, received top awards and recognitions at both regional and national levels. Submitted manuscript in a peer reviewed journal for publication.

Leadership & Volunteer Experience

Lead Instructor, Programming Coding Camp

Summer 2023- Present

- Organize and lead programming workshops in Scratch and Python at local township public libraries and elementary schools to foster foundational coding skills, problem-solving, and creativity among elementary and middle-school students.
- Empowered over 50 students from underserved backgrounds by fostering coding and problem-solving skills in hands-on environment. The 5th in-person cohort is currently underway.
- Developed engaging training material and hands-on projects that spark interest for CS Education particularly among students from underrepresented and underserved communities.

Teaching Assistant, HindiUSA, Cherry Hill, NJ

September 2022-Present

- Assist lead instructor in teaching Hindi to over 15 middle and high school students annually, review assignments and course material, and reinforce targeted lesson skills to improve their reading, writing, and speaking abilities.
- Inspire students to participate in Indian cultural programs during Hindu festivals, support students for annual poem competitions and other events to spread awareness about Indian culture and Hindi language.

Paid Summer Intern, ALI Leadership (www.alileadership.com)**June 2024 – August 2024**

- Engaged with young political organizers through a series of interactive workshops and discussions organized by Moorestown township Mayor's office, collaborated with elected officials, activists, and community leaders to design effective civic engagement strategies.
- Led Civic Engagement Project, Moorestown Meals, focused on raising awareness on food insecurity, organizing a food drive in the town and addressed the challenges faced by local food pantries and assisted with food deliveries. Presented a comprehensive plan to a panel of activists and leaders.

HindiUSA Student Ambassador to India**December 2023**

Selected as one of thirteen most outstanding students from a competitive pool of 400+ to represent HindiUSA (www.hindiusa.org) on a prestigious, fully funded two-week cultural and educational immersion trip to India. During this trip, had opportunity to:

- Visit two high schools in the New Delhi area, interact with local students, teachers, and school administrators, and participate in various cultural and talent programs.
- Meet with the Governor and Health Minister of the state of Uttar Pradesh, interact with many inspirational leaders and government officials at various organizations like the Indian Council for Cultural Relations (ICCR).
- Interview with multiple Hindi and English news outlets in India discussing topics like my Hindi language learning experience in the US, Indian culture acceptance in the US, and my impression of the Indian K-12 education system.

Honors and Awards

- New Jersey State Seal of Biliteracy for Oral and Written Proficiency in Hindi Language, 2025.
- 2nd and 3rd place, Congressional App Challenge in the third Congressional District of New Jersey, 2023 and 2024.
- Best in Engineering, Mathematics and Computer Science Category Award in High School at the 42nd & 43rd Coriell Institute Science Fair, 2023 and 2024
- President's Volunteer Service Award for 100+ hours of community service in 2023 & 2024.
- 2nd in Crescendo International Music Competitions with honor to perform solo piano piece at Carnegie Hall, NY in 2021, 2023 & 2024.
- Finalist, 61st National Junior Science & Humanities Symposium (JSHS) Competition, Virginia Beach, VA, 2023. Among top 3% (227/8000) high school students competed globally.
- Among Top 5 in New Jersey Southern Regional JSHS Competition, Ocean County, NJ, 2023.
- Finalist, 4th place in Engineering Category, 75th Delaware Valley Science Fair (DVSF), 2023.
- National Latin Exam Silver Award - Magna Cum Laude, 2022 & 2023.

Skills, Interests and Activities

- Foreign Language Skills: Advance level Hindi (reading, writing, and speaking) fluency.
- Coding & Programming Skills: Proficient in HTML, CSS, JavaScript, Java, Python and Swift, website and mobile app development. Proficient in utilizing various AWS cloud services and Deep Learning Models.
- Activities: Moorestown High School Varsity Chess Team President.
- Interests: Technology for Good, Entrepreneurial Ventures, Piano, Chess, Community Service, and Basketball.