

UMANG SHARMA

umang@sharma.com | umangsharma.xyz | +1 (650) 283-8667 | linkedin.com/in/umangssharma/

EDUCATION

Princeton Day School, Princeton, NJ | High School Diploma

Sep 2022 – Jun 2026

- SAT Score: 1570 | Reading & Writing: 770 | Math 800
- Relevant Coursework – AP Physics C: Mechanics, Post-AP Computer Science, Calculus AB, AP CSA, AP CSP (Self), OOP
- Activities: CS Club (Co-head), Makers' Club (Co-head), Student Council (Sec-Treasurer), [Pickleball Club \(Co-head\)](#), Science Olympiad A Team, VEX Robotics, Varsity Tennis

Harvard University – Secondary School Program

Jun 2024 – Aug 2024

- Courses: Wearable Devices & Computer Vision (A); Robotics, Autonomous Vehicles & AI (A)

PROFESSIONAL EXPERIENCE

Founder, Lead Engineer, & CEO, Jdable

Nov 2022 – Present

- Founded a nonprofit delivering affordable assistive tech to special needs communities, impacting 1,000+ beneficiaries, raising \$500K+ in assets, and partnering with 25+ nonprofits & corporations, including Google, Canva, and Stripe. Designed 10+ products, including tactile geometry kits, IoT canes, braille keyboards, and autonomous wheelchairs.

Cofounder & Chief Impact Officer, Nivaran

May 2025 – Present

- Developed initiatives to enhance accessibility through IoT solutions and community-driven design workshops.

Founder & Mentor, PC Workshop

Sep 2019 – Present

- Conducted 7+ workshops across the US & India, teaching 1,000+ students PC building and coding basics.

Executive Board Member, Student Code Alliance

Mar 2024 – Present

- Established 64 branches in 6 countries, tutored 4,500+ youth, and hosted tech hackathons for 250+ participants.

Project Lead, Recompose: Cognitive Composting

2024 – Present

- Created an AI-based system using depth vision to reduce food waste in schools by 37%.

Camp Counselor & Developer, Princeton Day School

Summer 2022 & 2023

- Instructed and managed children in squash camp with participants aged 5 to 13, and developed IoT squash training games for player development.

Tech Intern, Tech Mahindra Makers' Lab

Jun 2023 – Aug 2023

- Developed ESP32-based connectivity for intelligent robots, enabling seamless IoT integration, collaborating with engineers to prototype assistive robotic systems.

R&D Intern, Pyrotech Electronics Pvt. Ltd.

Aug 2022

- Assisted in assembling network systems and soldering PCB components for IoT innovations, and provided feedback during client R&D discussions.

RESEARCH

Team Lead, Tufts IDEA Labs

Jun 2025 – Present

- Working under Prof. James Intriligator on a multi-sensory VR platform enhancing accessibility for individuals with synesthesia.

Research Intern, Harvard University

Aug 2025 – Present

- Working under Prof. Salim Afshar on an IP65 heat-resistant smart switch enabling mobility-limited users to control saunas via adaptive IoT.

Independent Published Researcher

2025

- [IoT Smart Cane for the Visually Impaired](#) – Presented at IEEE MIT URTC; a low-cost navigation aid for obstacle detection.
- [Recompose: A Real-Time Vision System to Reduce Food Waste](#) – Published in IJSR, peer-reviewed study.

HONORS AND AWARDS

- *Hackathons*: UPenn Classic First Place Team, Big Red Hacks (2nd, 2025), PantherHack Best Education (2025) & Social Hack (2024), [HackBAC 3rd \\$500 Prize](#) (2024), PDS Hackathon 1st in Hardware (2023).
- *Science & Engineering*: CREST Gold Award, 3rd Overall – Mercer Science & Engineering Fair (2024), APA Psychology Award (2025) for Recompose.
- *Patents*: Assistive Braille Keyboard & Navillo Smart Wheelchair (Indian Patent Office).
- *Service*: Gold Presidential Service Award & PDS Silver Award for 250+ volunteer hours.
- *Other*: Nomination for Best Tech Crew by Montclair State University & CollegeBoard Rural and Small Town Award