UMANG SHARMA

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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.

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: Cognitive Composting 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:* Daily Point of Lights Award; 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