

Diya Kamalabharathy

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EDUCATION

Poolesville High School - Global Ecology House, Senior *Aug 2022 – Jun 2026*

GPA: 4.0 (unweighted) | 4.96 (weighted)

WORK EXPERIENCE / INTERNSHIPS

Intern | GW University (High-Performance Integrated Virtual Environment Lab) *Jun 2025–Current*

Curated AI LLM data to predict cancer treatment outcomes; presented at GWU conference

Research Intern & Poster Presenter | University of Maryland Baltimore County *Jun 2025 – Current*

Researched Rho1 protein, analyzed results using R; showcased at UMBC's Summer Research Fest

Emerging Leaders in Biotechnology Mentoring Program | AstraZeneca *Apr 2023 - Jul 2023*

Executed gene editing using CRISPR/Cas-9, Golden Gate Assembly, and micro pipetting

Piano Teacher (Paid Work) | JPiano Academy, Independent *Aug 2023 - Current*

Mentored 8 kids aged 5-13 in piano; orchestrated recitals at assisted living facility

Lab Intern | Rx Biosciences *Aug 2024 – May 2025*

Operated ribosomal display, gel electrophoresis, flow cytometry, FACS & immunoprecipitation

PROJECTS

Scientific Research Paper – Under Peer Review *Aug 2024 – Jun 2025*

Researched aptamers for drug delivery in Glioblastoma; presented at National JSHS & science fairs

Astrack | Mobile App Development *Nov 2024 – May 2025*

Designed a user-friendly mobile app to manage Asthma; presented at ASSET STEM Conference

Scientific Literature Review *Jul 2023 – Dec 2023*

Evaluated the efficacy and safety of mRNA Covid 19 vaccines compared to adenovirus vaccines

AWARDS

- 1st in Research Poster (2025) & 3rd in Behavioral Health (2024) - HOSA State level
- 3rd in poster presentation - Junior Science and Humanities Symposium State level (2025)
- 3rd in Science Montgomery Science Fair Biology Category - State level (2025)
- 1st in UMBC Invitational and 3rd in Regional - Science Olympiad (2025)
- President Volunteer Service Award – 3 times Gold (2022, 2023 & 2024)
- James Phang Aspiring Scientist Award - Metro Bethesda Rotary Club (2nd Place - 2025)
- Graduate Women in Science - Highly Meritorious Award from National Capital Chapter (2025)
- US Public Health Service's Meritorious Achievement Award (2025)
- American Citizenship Award (2024)
- Leadership Award - World Karate Federation (2024)
- 1st place in Literature & Award of Excellence – Montgomery County Council of PTAs (2025)

VOLUNTEERING / COMMUNITY SERVICE (over 1,100 hours)

Ensemble Leader | Asbury Methodist Village Senior Living *Aug 2023 - Current*

- Conducted and performed 20+ piano and vocal concerts for elderly at assisted living facility

Hospital Volunteer | Shady Grove Adventist hospital *Oct 2022 - Current*

- Assisted 100+ patients, providing comfort through conversations; Supported medical staff

Blood Donor Ambassador | American Red Cross *Aug 2023 - Current*

- Led monthly blood drives, prepared equipment, and motivated donors increasing blood diversity

Election Worker | Presidential Elections *May 2024 - Nov 2024*

- Setup voting machines, directed voters to polling booths during Presidential elections

Youth Editor, Event Emcee & Teacher Volunteer | Maryland Tamil Academy *Sep 2023 - Current*

- Contributed short moral stories to literary magazines; Instructed Tamil to kids.

LEADERSHIP

Vice President of Communications | HOSA State Chapter & President | Local Chapter *(2023-Current)*

- Directed meetings and managed events; Facilitated workshops at HOSA Leadership Conference.

Founder & President | Songwriters Circle Club *(2023-Current)*

- Organized 20+ open mic sessions during school lunch hour, growing the club to 100+ members

Vice President of Service | National Honors Society *(2025-Current)*

- Plan and implement monthly service projects, coordinating with committees

Captain & Participant | Science Olympiad Club *(2024 - current)*

- Led the team to UMBC Invitationals and MD State tournament, preparing them for success

Seminar Leader & Black Belt Karate Sensei | World Karate Federation *(2024 - current)*

- Organized seminars for 300+ people and mentored 100+ kids, promoting self-defense for all

Diversity, Equity and Inclusion Advocacy | Lynne Harris Internship

- Spearheaded a policy paper on the opportunity gap in the county's school system.

CLINICAL / SHADOWING EXPERIENCE (over 200 hours)

Summer Intern | Walter Reed National Military Medical Center (80 hrs) *Jun 2024 - Aug 2024*

- Prepared patients for EKG and IV; monitored vital signs; ensured comfort and accurate results

Clinical Intern | Washington Eye Consultants (90 hrs) *Jul 2024 - Aug 2024*

- Screened patients' vision using autorefractor and lensometer; dilated eyes to aid diagnostics

Melody Music Therapy (~25 hrs) *Apr 2024 - Feb 2025*

- Observed and interacted with patients with down syndrome and autism

Frederick Health Hospital (~12 hrs) *Oct 2023 - Mar 2024*

- Observed physical therapy treatments related to skeletal or muscular issues