

Nosiba Boukhris

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Senior at DSST: Cedar High School. First-generation Libyan-American planning to pursue a career in Biomedical Engineering, focusing on improving medical accessibility through research for underserved communities.

Education:

DSST: Cedar High School: (August 2021 - May 2025)

- GPA: 3.9

Leadership:

- Girls Tennis Team Captain
- President of National Honor Society
- Co-Founder Muslim West Girls Youth Group
- CubeSat Project Coding Lead/President (successfully launched 6 cube shaped satellites 100,000 ft above the ground and collected data on speed, altitude, and temperature)
- Fundraiser Lead for the Libya Flood Relief Initiative (raised over \$15,000 in monetary donations)
- Teacher Aide for AP Chemistry

Awards:

- Biogenesis International Biomedicine Olympiad Finalist 2023
- 2024 NCWIT AiC High School Award National Honorable Mention
- CU Anschutz Neuroscience Graduate Program Award 2024
- Honor Roll (High Honors with Distinction)
- Kode with Klossy Scholar 2023
- Seal of Biliteracy (in English and Arabic)

Online Courses & Certifications:

The Coding School - Intro to Artificial Intelligence and Machine Learning (2023-2024)

Google for Developers - Introduction to Machine Learning & Machine Learning Crash Course

Mental Health First Aid (MHFA) Certified

Experience:

The Junior Academy | 1000 Girls 1000 Futures - *Team Lead* (August 2022 - Current)

- Admitted to The Junior Academy (<10% acceptance); led a team in the Cognitive Classrooms Challenge, focusing on innovative STEM solutions
- Participated in the Leadership & Communication Certified course as part of 1000 Girls 1000 Futures

Denver Health Medical Paid Internship - *Biomed Intern* (November 2023 - February 2024)

- Programmed software for medical devices in the Biomed Dept; assisted with preventive maintenance and RMAs during 120+ hr hospital internship
- Participated in weekly seminars with 10 other interns, discussing our experiences, furthering my passion for addressing healthcare disparities

ISPEED in Biomedical Engineering at Johns Hopkins University - *Student Researcher* (July 2023)

- Conducted research on hypoxia in brain cells and the effects of COCl₂ on U-87 mammalian cells under Dr. Jessica Dunleavy; maintained and cared for brain cells daily, collected data, and was 1 of 20 students accepted
- Developed Python coding skills to train machine learning algorithms predicting patient outcomes for Alzheimer's and Parkinson's disease; gained experience in sterile cell culture techniques, DNA-to-protein conversion, building microscopes for light & fluorescence microscopy, and earned three college credits

Medical Career Collaborative Program (MC²) - *Student Ambassador* (August 2023 - Current)

- Attended monthly medical workshops as 1 of 60 out ~ 280 applicants to enforce passion for healthcare, gained certifications like CPR and bleeding control, recruited scholars, and volunteered in hospital/program for 25+ hours

TeaStreet - Cashier - (July 2022 - November 2022)

- Provided customer service as a cashier at TeaStreet, making boba drinks, handling transactions, managing inventory, and ensuring a positive experience for all customers

Girls Who Code - *Student Participant* (August 2022 - Current)

- Took self-paced courses in cybersecurity and data science and earning certificates along the way
- Started and led a GWC club at my school DSST: Cedar Middle School

Bioengineering Opportunities & Leadership Training (BOLT) - *Student Participant* (June 2024)

- Designed and built a 360° rotating sensor from scratch to assist medically impaired individuals in crossing roads with proximity-based alerts
- Learned skills such as soldering and computer aided design

Denver Metro & Regional Science & Engineering Fair - *Student Advisory Council* (October 2023 - Current)

- Serve on the Student Advisory Council for the Denver Metro & Regional Science & Engineering Fair, assisting in the planning and management of the event, coordinating materials, and supporting participants throughout the fair