

Contact

www.linkedin.com/in/zarif-azher-260b401bb (LinkedIn)
github.com/zarif101 (Personal)
zarif-azher.medium.com/ (Personal)

Top Skills

Python (Programming Language)
Machine Learning
Biology

Honors-Awards

4th Place - National Machine Learning Open (NMLO)

Publications

Heatwave Hell in Maryland
Heat and Racism in America's Cities

Zarif Azher

Caltech '28 | Bioengineering + CS
Great Falls, Virginia, United States

Summary

Undergrad at Caltech. Experienced innovator + leader passionate about applying powerful technology to biomedical problems, aiming to expand global healthcare access. Always looking for new opportunities!

Google Scholar: <https://scholar.google.com/citations?user=RuRyHyYAAAAJ&hl=en>

Experience

Dartmouth-Hitchcock
Researcher and Project Mentor
May 2021 - Present (3 years 4 months)

Developing AI + computational methods for application to biomedical data, aiming to expand healthcare access in under-resourced areas. Published 10+ peer-reviewed papers in leading journals and conferences.

Caire Health
AI Engineering Intern
June 2024 - Present (3 months)

Developed AI-driven tools for automated diagnosis of emergent conditions from radiology. Conducted research and technical analysis for regulatory screening of product. Y Combinator S21.

Dhaka North City Corporation
Director: Government Accountability Project
January 2023 - Present (1 year 8 months)

Working with Urban Lab and Bangladesh Environment Movement, mobilized marginalized citizens against land-grabbers. Created mobile platform for citizens to report complaints and crafted regulation mandating city government to respond promptly. Meeting lobbying Mayor of Dhaka featured in news and cited as model for 2024 general elections campaign platforms.

National Institute of Cardiovascular Diseases

Medical Technology Innovator

May 2022 - Present (2 years 4 months)

Dhaka, Bangladesh

Developed AI tools for automated analysis of electrocardiograms (ECGs) and low-cost cardiovascular monitoring, in collaboration with California Polytechnic State University. Deployed pilot in struggling under-resourced public health clinics, to reduce cardiologist burden and augment their decision making.

Bangladesh University

Information Technology Intern

April 2020 - Present (4 years 5 months)

Helping create and maintain an online learning platform in the wake of the COVID-19 pandemic

The World Bank

Intern

May 2023 - August 2023 (4 months)

Analyzed impact of loans for government transparency and women's empowerment in Western & Central Africa. Showed better governance and human capital can reduce inequality and poverty among 300 million people.

Case Western Reserve University

Computational Pathology Researcher

May 2022 - August 2023 (1 year 4 months)

Created AI tools for automated detection of cancer mutations from routine histopathology. Worked at the INVENT Lab, part of the Center for Computational Imaging and Personalized Diagnostics.

RemoteTA

Web Developer

July 2021 - June 2023 (2 years)

Working as part of a team to develop and maintain an online platform to connect teachers to youth teaching assistants.

Connecting Communities To Technology

Co Director of AI Classes

May 2021 - May 2023 (2 years 1 month)

Developing, managing, and teaching classes on artificial intelligence (AI) to students of various ages and skill level

University of Maryland

Intern

June 2021 - December 2022 (1 year 7 months)

- Within the UMD School of Public Health, under the Center for Community Engagement, Environmental Justice & Public Health (CEEJH)
- Working on various projects related to research and advocacy for environmental justice (EJ) and public health, including data analysis/ visualization, documentation and usage of GIS tools, manuscript writing, technical writing, and more.

Education

Caltech

Bachelor of Science - BS, Bioengineering and Political Science · (2024 - 2028)

Thomas Jefferson High School for Science and Technology

High School Diploma · (2020 - 2024)