

SANA PAKTINYAR
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PROFILE

I'm a rising sophomore at California Institute of Technology pursuing studies and research in medicine, psychology, robotics/technology, and engineering. I have a strong interest in the role of technology in enhancing medicine and human quality of life.

SKILLS

Academic – Multivariate Calculus, Linear Algebra, Robotics, Molecular & Cell Biology, Chemistry

Medical & Lab – Medical Assistant & EKG certified, EMT Skills, Titration, IR Spectroscopy

Computer – R, Python, Java, JavaScript, Arduino, Tinkercad, 3D Printing, Google Suite, MS Office

Multilingual - Native: English, Pashto, Dari, Urdu | *Fluent:* Hindi, Farsi | *Beginner:* Spanish, Japanese

EDUCATION

California Institute of Technology, Pasadena, CA 9/2022-Present

Major - Bimolecular Chemical Engineering, Pre-Med Track

Denver South High School, Denver, CO Graduated 5/2022

ADDITIONAL EDUCATION

Center for Health Artificial Intelligence, CU Anschutz, Denver, CO

Department of Biomedical Informatics, Janani Ravi, PhD Lab 2023

Data Analysis with Microbial Pathogenesis

Department of Biomedical Informatics, Nicholas Dwork, PhD Lab 2022

Machine Learning - Model Design & Linear Algebra focus

Colorado School of Mines, Golden, Colorado 2021

Summer Multicultural Engineering Training, Sustainability focus

University of Michigan, Ann Arbor, Michigan 2021

Joy of Coding - Python focus

Stanford Pre-Collegiate, Palo Alto, California 2021

Chemical Engineering Basics

Independent Study in Chemistry, Denver South High School, Denver, CO 2021-2022

Lab technique focus

ORGANIZATIONS, CLUBS & ACTIVITIES

Hacktech, Caltech, Pasadena, CA 2023-Present

Medlife, Caltech, Pasadena, CA 2023-Present

Caltech Robotics, Caltech, Pasadena, CA 2022-Present

Entrepreneurship Club, Caltech, Pasadena, CA 2022-Present

Caltech AiChe, Caltech, Pasadena, CA 2022-Present

Caltech CubeSat Club, Caltech, Pasadena, CA 2022-Present

Science Olympiad, Caltech, Pasadena, CA 2022-Present

QuestBridge, Denver, CO 2019-2022

Minds Matter Colorado, Denver, CO 2019-2022

National Honor Society, Denver Public Schools, Denver, CO 2021-2022