

Kian Sadat

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CORE SKILLS

Programming: Python, Flutter/Dart, HTML/CSS, Java, Javascript, Flask, Arduino, Raspberry Pi, Numpy, Pandas, Matplotlib, Scikit-Learn, TensorFlow

Language: English (fluent), Farsi (intermediate), German (intermediate)

Experience

Wyant College of Optical Sciences Undergraduate Researcher

August 2024 - Present

- Worked in the Translational Optical Imaging Lab on the computer vision team
- Developed a GUI framework for lossless compression and noise reduction of reflectance confocal microscopy image data
- Implemented a self-supervised deep learning noise reduction algorithm called Noise2Nyquist

Independent Materials/Machine Learning Research

June 2024 - August 2024

- Developed framework that uses deep learning and genetic algorithms to optimize phase change and magneto-optical material compositions
- Wrote a paper documenting research and discussing the topic of machine learning in materials science

HGN Lab for Bionics Open-Source Research

July 2023 - May 2024

- Worked with researchers from the University of Utah's HGN Lab for Bionics to improve an open source powered prosthetic knee design
- Integrated wireless microcontroller mobile interface to display diagnostic data during benchtop testing

TGen Bioscience Leadership Academy Alum

June 2023

- Intensive education and leadership program focused on understanding bioscience and translational medicine
- Researched and presented on paper regarding a nascent PDAC treatment
- Elected to represent and speak on behalf of cohort at closing symposium

Future Business Leaders of America, University High School

August 2022 – May 2024

- Served as chapter president during 2023-24 school year
- Worked with a 5-person team to research Robert's Rules of Order, the backbone for high level governmental/corporate meetings
- Won first place at the State competition at La Paloma, secured entrance and attended the National Leadership Conference in Atlanta, Georgia

Founder and Director of Adaptive Motion Alliance

July 2023 - Present

- Founded a nonprofit organization with the goal of spreading spread awareness about the strides in prosthetic research as well as improving the quality of life for amputees by connecting them with resources and information
- Raised funds alongside the American Heart Association

Education

University of Arizona, Electrical and Computer Engineering, Tucson AZ

August 2024 - May 2028

- Expected to graduate in 2028

University High School, Tucson AZ

August 2020 - May 2024

Awards and Certifications

Fundamentals of Quantitative Modeling Certification, Wharton Online

November 2024

DeepLearning.AI Supervised Machine Learning Certification, Stanford Online

June 2024

American Heart Association Leader of Impact Nominee

September 2023

Python Information Technology Specialist, Certiport

May 2023

Java Information Technology Specialist, Certiport

May 2023

HTML/CSS Information Technology Specialist, Certiport

May 2023

National German Exam Silver Medalist

March 2023