

Alexander Noor Sherzai

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Objective

Highly motivated and accomplished Prospective Graduate Researcher with a strong foundation in Machine Learning, Statistics, Natural Language Processing, and Computer Vision. Seeking a challenging role where I can leverage my expertise to contribute to innovative projects, solve real-world problems, and further advance my skills in a dynamic research environment. Committed to applying my analytical and leadership skills to drive impactful results in the field of artificial intelligence and data science.

Education

- B.S. Computer Science, Minor Mathematics | August 2018 - May 2023
- California State University, Los Angeles
- Early Entrance Program and Honors College

Awards

- Honors College Dean's List, 6 semesters
- Graduated with Honors College

Work Experience

Lead Software Engineer | Brain Initiative Inc. | July 2022 - Present

- Designed Cognitive Assessment Game in ReactJS and data infrastructure in Firebase and Django
- Creating Responsive System Oriented to User State

Projects

NASA Minds Lab | Physics Dept. at Cal State LA | December 2022 - May 2023

- Developed Object Detection for Cryoswarm Software Team on the NASA Minds Project
 - Utilized Computer Vision Technologies to Differentiate Lunar Surfaces in Real Time Through Drone Camera Feed
 - Utilized OpenCV, Tensorflow, and Vanilla Javascript
 - Won 1st Place for Senior Design Paper and 3rd Place for Overall Teams
 - Won \$3500 Grant from NASA

Senior Design | California State University Los Angeles | September 2022 - May 2023

- Lead 3D Modeling Team and Built Convolutional Neural Network for JPL MoonTrek Senior Design Project
 - Utilized Vue.js, Vanilla Javascript, OpenCV. Python. Keras

Research Experience

Mathematics Department at Cal State La | Faculty Advisor: Dr. Jie Zhong's | Fall 2020 - Spring 2023

- Conducted an Data Exploration of Crime Trends in Los Angeles in partnership with LA City | August 2022. See article [here](#).
 - Presented Poster on our Findings at Mathematical Association of America MathFest in Philadelphia, PA | August 2022
- Presented Poster on Time-Series Analysis of COVID-19 data in United States to Predict Growth of Pandemic | Feb 2021

Publications

- Sherzai, Ayesha Z., Alexander N. Sherzai, and Dean Sherzai. "A Systematic Review of Omega-3 Consumption and Neuroprotective Cognitive Outcomes." *American Journal of Lifestyle Medicine* (2022)
- (In Progress) A Systematic Review of AI Language Models for Cognitive Assessment
- Books
 - Author of "*S.U.P.E.R. M.E.: How To Achieve a Super Brain!*" – Released January 9, 2019 by Sophia Sherzai, Alex Sherzai.
 - Author of "*Walk Like an Elephant*" – Released December 16, 2015 by Sophia Sherzai, Alexander Sherzai

Leadership Experience

- Served as Lead Software Engineer for Neurospect | July 2023 - Present
- Elder Year Representative - Early Entrance Program Club | September 2022 - May 2023
- Chief Justice - Associated Students Inc. at Cal State LA | March 2022 - June 2022
- Associate Justice - Associated Students Inc. at Cal State LA | September 2021 - March 2022
- Hosted YouTube channel "The Science Kids" from 2011 - 2017

Extracurriculars

Web Content Manager | Restore Her Voice | January 2022

- Led the development of website for Non-for-Profit Organization Restore Her Voice

- Used Wordpress and HTML
- Link available [here](#).

Tutoring in R and Biostatistics for Graduate Level Students

Skills

- Proficient in Java, Javascript (including NodeJS and ReactJS), Python, HTML/CSS, C#, R, SQL
- Knowledgeable in C++, PHP, and Swift, Matlab
- Experience with Excel, Microsoft Word, MongoDB/JSON
- Project Management and Team Building Skills
- Data/Statistical Analysis and Data Communication
- Article Writing and Video Editing to Communicate Content
- Languages Spoken: English, Farsi, Spanish (Beginner)