

Pouya Zakeri

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EDUCATION

Career Objective

Hard working Computer Science major aiming to acquire a Bachelors degree in two and a half years after graduating high school a year early. Currently attending Colorado School of Mines taking 18 credit hours for my first semester of my senior year, with 6 years of experience. Aiming to leverage a proven knowledge of research and development skills to successfully fill a role.

Colorado School of Mines Graduation 2022

Major: **Computer Science**

Courses: Intro to CS, Programming Concepts, Data Structures, Comp. Org., Software Engineering, Discrete Mathematics, Database Management, Operating Systems, Python Based Computing (Building a Sensor System), Computer Vision, Machine Learning

EXPERIENCE

Colorado School of Mines — *Researcher*

Sep 2021 - Present

- Using drone taken models for classification of geological formations
- Data science work handling millions of image points efficiently
- Machine learning work for classification of image points
- All work done in Python and Excel

Colorado School of Mines — *Researcher*

Aug 2020 - Apr 2020

- Helping find possible associations between COVID-19 and other illnesses through protein to protein association
- Grew my ability to quickly learn different areas of study in order to be able to better understand my research
- Handle data (python) from a database containing information about proteins as well as relations for each one

CSU Chico — *Researcher*

Jul 2019 - Dec 2019

- Working with research teams and organizing groups to work on NSF funded project
- Using OpenCV (Python) for the expansion and classification of a database of OCT (Optical Coherence Tomography)
- Writing a convolution neural network for the classification of Dental Cavities pre-detected
- Presented a Poster at the 2019 MIT Undergraduate Research Conference - Finalist

CSU Chico — *Intern*

May 2019 - Aug 2019

- Beginning to learn python from a course hosted online by MIT
- Introduction to circuit software
- Different projects to help grow my skills in different situations in python
- Learning to write reports on completed work

LEADERSHIP

Computers for Classrooms — *Volunteer*

May 2018 - Sep 2018

- Assisting the refurbishing and recycling of over 300 donated computers daily
- Instructing and leading teams of up to 10 volunteers on taking apart motherboards to salvage.

ORGANIZATIONS

Kappa Sigma Fraternity - Gamma Gamma Chapter

Fall 2020 - Present

- Scrapbook Chair - Responsible for all of the collection, organization of different media types, with distribution and presentation.
- Rush Committee - Responsible for the assistance of advertisement for recruitment of potential new members and facilitating potential membership with over 200 prospective members to a chapter of over 80 active members.

MInDS@Mines

Fall 2020 - Present

- Lab focused on Machine Learning, Informatics and Data Science

IEEE

Dec 2019 - Present

- World's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

AWARDS

- Acker Acknowledgement Award - Leadership and Peer mentorship
- Presidential Medal of Honor in Math - Gold - 3 years consecutive
- Presidential Scholarship

SKILLS

- Advanced: Python, C++, Linux, OpenCV
- Proficient: SQL Databases
- ...Software Design, Git, Java, C, HTML, x86, Tensorflow

REFERENCES

- Hassan Salehi, CSU Chico - Electrical and Computer Engineering - (530)898-5816 - hsalehi@csuchico.edu
- Hua Wang, Colorado School of Mines - Department of Computer Science, MInDS@Mines - (303)384-2326 - huawang@mines.edu