

Nihal Pandra

720-900-8938 | Nihal.Pandra@colorado.edu | linkedin.com/in/nihal-pandra03

EDUCATION:

University of Colorado at Boulder, College of Engineering and Applied Science

B.S. in Biomedical Engineering with an Emphasis in Pre-Medicine

Expected May 2025

Boulder, CO

WORK EXPERIENCE:

Flow Physics Lab

January 2023 to Present

Research Assistant

- Work on running Computation Fluid Dynamic simulation on patient's files provided by University of Colorado Anschutz to calculate flow on Embolic stroke patients.
- Calculating Lagrangian Coherent Structures to generate FTLE fields of flow on embolic stroke patients' files to visualize area of high and low converge or divergent behavior on carotid vessels.

Bedell Lab

May 2022 to September 2022

Research Assistant

Boulder, CO

- Tested water sensor using tryptophan-like-fluorescence sensing to correlate output data to fecal contamination in drinking water.
- Created regression models to predict fecal contamination in labeled categories of low, intermediate, high or very high. Cleaned and analyzed data using machine learning methods to further classify data.
- Applied water quality parameters like turbidity, pH, temperature, biofouling, and mineral scaling to determine operational limits in water sensors.

Tilly's

April 2022 to August 2022

Retail Sales Associate

Boulder, CO

- Engaged sales strategies and monitored departmental products to optimize sales revenue to meet daily sales goals.
- Initiated conversations with customers to join rewards/customer loyalty program with a 95% conversion rate, creating loyal and returning customers.
- Analyzed personal weekly sales and developed a growth procedure directed to increase sales of products ending with increasing weekly sales ranging between \$10000-\$12000.
- Cultivated extended retail experience through customer service development in a team of 10 under supervisors and management.

LEADERSHIP AND ACTIVITIES:

Swedish Medical Center

August 2019 to March 2020

Volunteer

Denver, CO

- Transported patients and helped with discharge procedures; completed paperwork and evaluation forms to document patient interactions.
- Conducted inpatient comfort care rounds to burn victims and rehabilitation patients to promote patient satisfaction.
- Restocked supplies and filed paperwork to satisfy department leadership requests.
- Complied with HIPAA standards to confidentially maintain patient medical information.

Kumon

September 2019 to March 2020

Tutor

Parker, CO

- Tutored students in a variety of subjects including Math, Reading, and Writing.
- Graded papers and provided feedback to students to improve academic performance.

Western States Pathology Lab

May 2018 to August 2018

Volunteer

Aurora, CO

- Shadowed doctors while they performed clinical duties.
- Assisted in administrative duties such as shipping chemical specimens.
- Compiled environmental regulations that involve disposing of hazardous chemicals.

SKILLS AND INTERESTS:

Technical: Proficient in MatLab, Python, Solidworks, Visual Basic and Arduino Micro Sensors, Lab Experience, Research Proficiency

Interests: CrossFit Training | Basketball | Music | Sneakers