

Alexandra Schmitz

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SUMMARY

Recent graduate seeking opportunities to employ technical and problem-solving skills. Aiming to transfer science and lab skills from academic settings to a professional environment. Strong teamwork, interpersonal, communication, and organization skills developed through internships and leadership positions. Excellent skills in excel, google mail, google documents, and database management, proven through efficient use in professional settings.

EDUCATION

Bachelor of Science: Major in Biology | Minor in Mathematics

University of Colorado, Denver, CO, GPA: 3.9

Associate of Applied Science in Software Development

Red Rocks Community College, Lakewood, CO, GPA: 3.8

PROFESSIONAL EXPERIENCE

Summer Research Intern

CU Anschutz, Aurora, CO, May 2023- July 2023

- Performed immunohistochemistry experiments and visualized murine tissue samples using microscopy with strong attention to detail.
- Cultured cells for organoid derivation from isolated stem cells of lingual epithelium for in-vitro experiments.
- Performed statistical analysis and integrated data for final presentation at symposium.

Data Engineer Intern

Ibotta, Denver, CO, May 2022- August 2022

- Assisted in maintenance of ETL pipelines using Apache Airflow, AWS Cloud Services, Databricks and Azure Delta Lake infrastructure.
- Improved DAG designs using Pyspark (planned with Lucidchart) and reported to stakeholders with new design iteration/updated database.
- Worked in an agile environment with Jira to complete tasks (data cleaning and preparation) and streamlined processes when possible.

Vice President of Student Government | Board

Red Rocks Community College, Lakewood, CO, May 2021 – May 2022

- Actively engaged and coordinated weekly meetings to discuss school events and promote student involvement.
- Used effective communication and presentation skills to provide valuable feedback on existing programs and gauge student satisfaction.
- Demonstrated exceptional presentation and interpersonal skills by serving as a club liaison for various college clubs and committee board members.

COURSEWORK

General Genetics

University of Colorado, Denver; 2022: Problem Solving, Creative Thinking, Independent work

Learned the basics of genetic processes including genetic recombination, sex-linked disease patterns, DNA/RNA structure/replication differences, gene regulation, and role of epigenetics in cell differentiation.

General Microbiology Lab

University of Colorado, Denver; 2022: Organizing, Analyzing, Planning, Designing, Teamwork

Gram staining, agar plate inoculation, microbial growth on selective/differential media, pipetting, serial dilution, aseptic technique.

Organic Chemistry Lab

University of Colorado, Denver; 2023: Organizing, Analyzing, Planning, Designing, Teamwork

Functional Group Testing, TLC Chromatography, Isolation of Ibuprofen Enantiomers, FTIR, NMR

Lab Techniques: Simple Distillation, Vacuum Filtration, Recrystallization, Separatory Funnels

Biostatistics

SKILLS

Programming: Python, C++, R

Other: SQL, HTML/CSS, Databricks, AWS Cloud Services, Lucidchart, GitHub, Jamovi

Operating Systems: Linux, Windows

Lab Skills: Confocal Microscopy, Immunohistochemistry, Cell Culturing

Languages: English, Japanese

Soft Skills: Customer Service, Time Management, Interpersonal/Communication skills