JACOB CAHOON

10266 N Oak Creek Ln ◇ Highland, UT 84003

(385) · 307 · 9925 ◇ jacobbcahoon@gmail.com

EDUCATION

Brigham Young University, Provo *April 2025*

B.S. in Computer Science with Emphasis in Machine Learning
Minor in Mathematics & Chemistry

Overall GPA: 4.00 / 4.00
ACT: 35
Heritage Full-Ride Scholarship Recipient
Dean's List: Fall 2022, Winter 2022, Winter 2023, Fall 2024

EXPERIENCE

Brigham Young University - Chemistry Department Provo, UT
Research Assistant *June 2023 - January 2024*

· Designed and developed BERT-based protein models for novel protein generation and design using PyTorch, HuggingFace, and other ML libraries
· Read, annotated, and organized 50+ research articles for a literature review
· Synthesized AI generated proteins in the lab using one-pot synthesis and confirming success with NMR spectroscopy

Brigham Young University - College of Life Sciences Provo, UT
Anatomy Lab TA/Mentor *December 2021 - April 2023*

· Helped 60+ students find and identify 500+ anatomical terms on human cadavers
· Checked assignments, proctored exams, and provided grades according to university standards
· Established a welcoming environment suitable for learning in a 1:10 ratio of TA's to students

Techcyte Orem, UT
Data Entry Assistant *August 2016 - March 2022*

· Annotated over 10,000 data samples from blood, mold, and fecal slides to train a computer vision model
· Became experienced in white and red blood cell classification

LEADERSHIP & SERVICE

Provo Recreation Center Provo, UT
Head Coach of 3rd-4th grade boys soccer *August 2023 - November 2023*

· Led and managed a team 3rd and 4th grade boys, focusing on skill development, teamwork, and sportsmanship
· Executed player rotations during matches to ensure equitable playtime for each member
· Coordinated practice and game schedules with 12 families

The Church of Jesus Christ of Latter-day Saints Rome, Italy
Full-Time Representative *June 2019 - July 2021*

· Participated in dozens of Italian service projects cleaning up beaches, streets, and monuments, clothing the needy, and providing genealogical search aid
· Conducted hour-long trainings for 100+ representatives and leaders on 3 separate occasions for the incorporation of technology and genealogical service

AWARDS, SKILLS & INTERESTS

- Fluent in Italian
- Proficient in Python, Java, C++, GitHub, and React
- Eagle Scout, Boy Scouts of America

- Proficient in many libraries including PyTorch, TensorFlow, Pandas, and NumPy
- Completed the Everesting challenge in 19 hours, 177 miles, and 29,900 ft of elevation gain in a single ride