JACOB CAHOON

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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, Winter 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 Physical and Mathematical Sciences   Provo, UT
Machine Learning Teaching Assistant   *January 2024 - May 2024*

· Helped 100+ students with Python, SciKit Learn, Numpy, Pandas, and other ML libraries
· Developed new laboratory assignments integrated with AWS DynamoDB, API Gateway, and Lambda which facilitated the learning and grading process
· Created neatly formatted and easy-to-understand LaTeX documents for midterm and final exam reviews

Techcyte   Orem, UT
Freelance Web Scraper   *January 2024 - May 2024*

· Developed a versatile web scraper using Python, Selenium, and BeautifulSoup to extract data from over 50,000+ websites
· Generated over 13,000+ high quality leads for the sales team
· Parallelized the scraping process with 25 residential proxies and verified the email addresses of 10,000+ leads using the ListClean API

LEADERSHIP & SERVICE

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, Lua, LaTeX, and React

- Eagle Scout, Boy Scouts of America

- Proficient in many libraries including PyTorch, TensorFlow, Pandas, NumPy, and SciKit Learn

- Completed the Everesting challenge in 19 hours, 177 miles, and 29,900 ft of elevation gain in a single ride