

RODRIGO MEZA PINEDA

Machine Learning Engineer

(919) 259-3149 rmezap02@gmail.com [linkedin.com/in/rodrigo-meza-pineda/](https://www.linkedin.com/in/rodrigo-meza-pineda/) github.com/rmezapi Chapel Hill, NC, USA

SUMMARY

Passionate and excellence-driven individual with a focus on utilizing computers to create programs for societal improvement. Strong interests in Software Engineering, Computer Vision, Machine Learning, Sports, and Art. Seeking opportunities with companies dedicated to leveraging technology for advancements in sports, fitness, and art. Core values encompass respect, integrity, and gratitude.

TECHNICAL SKILLS

Python, PyTorch, Java, MATLAB, R, C, SQL, Ruby, HTML, CSS, Tableau, Visual Recognition with Transformers, Transfer Learning, Machine Learning, Algorithms, Programming Intelligent Physical Systems, Data Models, Web Programming, Probability

WORK EXPERIENCE

○ May 2022 - Aug 2022

Applaudo Studios | San Salvador, El Salvador (REMOTE) | [applaudo.com](https://www.applaudo.com)

Machine Learning/Data Science Intern

- Contributed to a collaborative team focused on developing a **machine learning algorithm** to forecast employee attrition and retention and plan for personnel replacement and team optimization.
- Responsible for gathering data from **web APIs**, cleaning raw data, planning data flow, conducting **variable analysis**, and preparing model inputs using **Python** with Pandas and Numpy on Jupyter.

○ Feb 2021 - Aug 2022

Undergraduate Research Assistant | UNC Chapel Hill, NC | oasis.unc.edu

Research Assistant to Dr. Andy Lang, Office of Arts and Information Sciences (OASIS)

- Developed, deployed, and maintained a web app tailored for local beer enthusiasts, providing downloadable brewery encompassing brewery demographics, production, and beer data and statistics.
- Utilized **PostgreSQL** for database construction, integrated with a **Ruby on Rails** web application hosted on **RedHat OpenShift**.
- Collaborated with the UNC OASIS team in debugging and adapting the Southeastern Region Climate Center Website using **PHP** to transfer hosting to the University.

○ Jan 2022 - Aug 2022

Undergraduate Research Assistant | UNC Chapel Hill, NC

Research Assistant to Dr. Aaron Delgaty

- Developed an interview-focused database web application to track the consumption patterns of UNC-Chapel Hill students.
- Employed a **PostgreSQL** database integrated with a **Ruby on Rails** web application, however the application was not ultimately deployed.

○ May 2023 - Present

UNC Campus Recreation - Carolina Adventures | UNC Chapel Hill, NC | campusrec.unc.edu/programs/carolinaadventures/

Facilitator at the Challenge Course Program

- Plan, design, facilitate, oversee**, and **debrief** specialized programs tailored to client needs, focusing on fostering **self-confidence, teamwork, unity**, and **trust** among groups of co-workers, teammates, classmates, & more.
- Lead** groups through various ropes course elements, ensuring the implementation of **safety** measures.

PROJECT EXPERIENCE

○ May 2024

Alzheimers/Dementia Image Classification Vision Transformer (ViT) | github.com/rmezapi/dementia_vit

Author

- Utilized **PyTorch** to implement a ViT model fine-tuned on a challenging Alzheimer/Dementia image classification brain scans dataset using a base ViT pre-trained on ImageNet-21k.
- Achieved **64% accuracy** on testing evaluation after training for 5 epochs.

○ May 2023 - August 2023

UNC Global Career Accelerator | UNC Chapel Hill, NC | globaltech.unc.edu/coding-for-data

Participant in the Coding for Data Track

- Studied **SQL, Python**, and **Tableau** under Dr. Robert Alvarez as part of a summer-long program focused on **data wrangling, data analysis**, and intercultural skills.
- Earned the "SQL Specialist", "Python Specialist", and "Intercultural Skills" certificates.

EDUCATION

University of North Carolina - Chapel Hill

Bachelors of Science in Computer Science | GPA: 3.4 | May 2024

Minor in Statistics and Analytics | Minor in Studio Art - Photography