

Vincent Cordova

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PROFILE

A Computer Science engineer driven by curiosity and the pursuit of rigorous, applied learning.

SKILLS

Languages: Python, Java, C++, Dart, JavaScript, C, ARM Assembly, HTML/CSS, GLSL
Frameworks: TensorFlow, PyTorch, React, spaCy, MPI, NodeJs, PostgreSQL, MongoDB, Flutter
Devtools & APIs: Git, Docker, Figma, ZenHub, Microsoft Suite, Google Cloud, OpenAI, Gemini, Blender
Professional Skills: Agile, Strong Communication, Critical Thinking, Leadership, Metacognition, Ingenuity

EDUCATION

Master of Science in Computer Science 07/2025 – 12/2026
Colorado School of Mines (CSM) Denver, CO
Bachelor of Science in Computer Science 07/2020 – 12/2024
Metropolitan State University of Denver Denver, CO

INTERNSHIPS

Full Stack App Development Internship 06/2024 – 06/2025
Metropolitan State University of Denver Denver, CO

- Designed an AWS Lambda script to parse and tag over 10 on-campus events per second from trusted data sources with 99% accuracy, leveraging Natural Language Processing (NLP) and geolocation algorithms.
- Utilizing Flutter, implemented a cross-platform dynamic map of events with Google Maps, displaying thousands of events over 100+ placemarks across 6 categories without cluttering the user interface.
- Fulfilled integral database solutions through a custom built REST API with Firebase for authentication and 8 MongoDB models, enabling accurate real-time retrieval from 100,000+ database entries.
- Collaborated with a team of 5 benefiting from Agile/Scrum methodologies; led development of crucial features while engaging in 2-week sprints for 10 weeks.

RESEARCH & EMPLOYMENT HISTORY

Machine Learning Risk Assessment – Independent Study (In Progress) 01/2026 – 05/2026
Colorado Energy & Carbon Management Commission (ECMC) & CSM Golden, CO

- Developing a quantitative machine learning model to gauge pipeline failure risk using regulatory industry datasets.
- Engineering risk factors using historical causal failure cases and their statistical relationships.
- Training and validating models on PHMSA data and applying them to Colorado pipeline data, including blind testing on PODS records.
- Integrating model outputs with a GIS-based risk scoring system to support automated scalable risk assessment.

Deep Learning in Education – Independent Study 08/2024 – 12/2024
Metropolitan State University of Denver Denver, CO

- Produced a step-wise learning tool for education, based on proven study methods and in-class material.
- Utilized prompt engineering and RAG techniques to implement guard rails and relevant LLM responses.

Undergraduate Researcher 08/2023 – 06/2024
Metropolitan State University of Denver Denver, CO

- Built and benchmarked an 8-core Raspberry Pi cluster computer with performance peaking at a 12.51x program speedup and 156% overall efficiency per core.
- Analyzed strengths and weaknesses of parallel programming using a Message Passing Interface (MPI4PY) and identified ideal use cases for parallelization.

Graduate Teaching Assistant & Learning Assistant 01/2023 – 12/2025
Colorado School of Mines & Metropolitan State University of Denver Golden, CO / Denver, CO

- Assisted with Computer Vision, Computer Science 1, and Computer Organization 2 assignments.

EXTRACURRICULAR EXPERIENCE

MSU-DU-UCD Hackathon Winner 04/2025
Upsilon Pi Epsilon Honors Society Treasurer & Scholarship Awardee 09/2024
OpenCV TensorFlow-Keras Bootcamp Certificate 04/2024
NVIDIA Fundamentals of Deep Learning Certificate 12/2023
MLH DU-MSU Hackathon Winner 10/2023