VINCENT CORDOVA

DENVER, UNITED STATES 720-436-9017

DETAILS

Denver
United States
720-436-9017
vlvc.dev@gmail.com

LINKS

linkedin.com/in/vlvcdev/

github.com/vlvcDev

vlvc.dev

SKILLS

Python

Java

Dart

JavaScript

C++

ARM Assembly

TensorFlow

PyTorch

spaCy

MPI

Node.js

SQL

MongoDB

Flutter

React

HTML + CSS

Docker

Git

Agile + Scrum

GLSL

Figma

ZenHub

Microsoft Office

Google Cloud + Maps API

OpenAI + Gemini API

Blender

INTERNSHIPS

Full Stack App Development Internship at MSU Denver
June 2024 — August 2024

- Designed an AWS lambda script to parse and tag over **300** on-campus events from trusted data sources with **99%** accuracy in seconds using Natural Language Processing **(NLP)** and Geolocation algorithms
- Using Flutter, implemented a cross-platform dynamic map of events with Google Maps, displaying nearly **100** placemarks relative to **6** different categories
- Implemented integral database solutions through a custom built REST API using Firebase for authentication and MongoDB for managing **100,000+** event entries, ensuring scalability and real-time data access
- Successfully presented designs and demos to **10** different shareholders, gaining **$10,000** in extra funding for further development

EMPLOYMENT HISTORY

Undergraduate Researcher at MSU Denver
August 2023 — June 2024

- Built and benchmarked an 8 core Raspberry Pi cluster computer with performance peaking at a **12.51x** program speedup and **156%** efficiency compared to single core performance
- Analyzed the strengths and weaknesses of parallel programming using a message passing interface **(MPI4PY)** as well as the ideal use cases for parallelization
- Formally presented findings to an audience under the MSU Denver Undergraduate Research Symposium

Teaching Assistant and Learning Assistant at MSU Denver
January 2023 — Present

EDUCATION

Bachelor of Science, Metropolitan State University of Denver, 3.32
December 2024

EXTRA EXPERIENCE

Deep Learning Independent Study

- Fine-tuned and utilized pre-trained deep learning models to generate quiz questions for Computer Science courses, focusing on optimizing model accuracy and engagement through AI-driven content creation.
- Exploring the Alignment Problem in educational assessments, ensuring AI-generated content enhances learning outcomes.

NVidia Fundamentals of Deep Learning Certificate
December 2023

OpenCV TensorFlow-Keras Bootcamp Certificate
April 2024

Compute Shader Physarum Simulation, GitHub

Leveraged GPU acceleration to simulate the behavior of slime mold on a 2D pixel map using compute shaders, allowing for **500,000+** simulation actors at once while maintaining **3x** the frame rate of a CPU simulation with **1/10** the simulation size