# DIEGO ARTEAGA

🤳 (661) 219-4382 | 💌 darteaga520@gmail.com | 🏶 darteaga.me | 😱 github.com/d-arteaga

# **EDUCATION**

# California State University, Northridge

Bachelor of Science in Computer Science

May 2025 Northridge, CA

**College of the Canyons** 

June 2023

Associate in Computer Science, Associate in Mathematics

Santa Clarita, CA

## **Relevant Coursework in:**

 Data Structures, Algorithm Design & Analysis, Software Engineering, Machine Learning, Data Mining, Database Design, Probability & Statistics, Web Engineering, Networks & Security

#### EXPERIENCE

## **Video Editor & Analyst**

Nov 2021 - Feb 2025

Los Angeles, CA

- · Streamlined audio and video production workflows using Ableton Live, Adobe Premiere Pro, Adobe After Effects, and Photopea, demonstrating efficiency, adaptability, and technical proficiency in digital production tools
- Analyzed viewer engagement and performance metrics using Python and Pandas, uncovering trends that led to data-driven optimizations in content strategies, leading to over 8.5 million views and a 31% increase in retention
- Performed A/B testing on content formats, identifying key factors that improved audience engagement by 23%

Studio Musician Nov 2021 - Dec 2024

Los Angeles, CA

- Collaborated with diverse teams in high-pressure studio environments, meeting strict deadlines while enhancing communication, teamwork, and problem-solving skills-directly applicable to agile management practices
- Managed social media accounts and album marketing efforts, increasing audience engagement by 20%

## **PROJECTS**

## **Lung Cancer Detection Model** | Python, TensorFlow, Keras, OpenCV, Matplotlib

March 2025 - Present

- Processed and analyzed the LIDC-IDRI CT scan time series dataset, working with over 3,500 sequential medical images for early lung cancer detection using Pydicom for DICOM file management
- · Developed comprehensive data visualizations using Matplotlib, Seaborn, NumPy, SimpleITK, and PyVista to analyze tissue density distributions, identify structural abnormalities, and generate 3D renderings and multiplanar reconstructions for enhanced diagnostic clarity
- Applied image preprocessing and feature extraction with OpenCV, preparing data for model training using TensorFlow and Keras, aiming for a target recall of 85%

Agricultural IoT and Machine Learning Platform | React, Next.js, Firebase, Node.js, Python

Jan 2025 - Present

- Developing an IoT-driven agricultural platform within a team of 12 students via GitHub and Jira, aimed at helping cocoa bean farmers monitor weather conditions and optimize crop health for improved yields
- Designed a real-time dashboard with React, Next.js, and Bootstrap, visualizing sensor data from Firebase, and utilized Python and Postman to test API endpoints, improving GPS data transmission
- · Collaborating with a machine learning sub team working on predictive models for plant sickness and crop growth
- · Co-authored a research paper on the platform's application and integration of small-scale IoT technology for agricultural monitoring, submitted to the CSCSU (Computer Science Conference for CSU Undergraduates)

**Spotify Clone** | React, Node.js, Express.js, MySQL, Vite.js, Axios, Bootstrap

Feb 2025

- · Redesigned my personal full-stack music streaming platform, originally built with PHP and JavaScript, using React and Bootstrap for a modern, responsive UI, significantly improving user engagement
- Developed a **Node.js** and **Express.js** backend with **MySQL**, optimizing guery performance and API response times
- Implemented a real-time search bar, dynamically filtering songs and reducing search latency by 30%

#### SKILLS

Programming Languages: Java, JavaScript, Python, SQL (MySQL), HTML/CSS, C++

Frameworks/Libraries: React, Node.js, Express.js, Bootstrap, Vite.js, NumPy, Pandas, Matplotlib, scikit-learn, TensorFlow

Developer Tools: Git, GitHub, Visual Studio Code, Jira, Jupyter Notebook, Anaconda, NPM, AWS, Docker

Languages: English, Spanish, Japanese