

# DIEGO ARTEAGA

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## EDUCATION

### California State University, Northridge

Bachelor of Science in Computer Science

May 2025

Northridge, CA

### College of the Canyons

Associate in Computer Science, Associate in Mathematics

June 2023

Santa Clarita, CA

#### Relevant Coursework in:

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

## EXPERIENCE

### Video Editor & Analyst

Los Angeles, CA

Nov 2021 - Jan 2025

- Streamlined audio/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 **Pandas** and **Matplotlib**, uncovering trends that led to data-driven optimizations in content strategies, leading to over **7,000,000 views** and **25% increase in retention**
- Performed A/B testing on content formats, identifying key factors that **improved audience engagement by 21%**

### Studio Musician

Los Angeles, CA

Nov 2021 - Dec 2024

- 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 digital marketing efforts, **increasing audience engagement by 23%**

## PROJECTS

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

Jan 2025 - Present

- Developing an **IoT-driven agricultural platform** within a team of 12 students, 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**
- 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 that improves user engagement
- Developed a **Node.js** and **Express.js** backend with **MySQL**, optimizing query performance and API response times
- Implemented a real-time search bar, dynamically filtering songs and reducing search latency by 30%

### COVID-19 Trend Analysis Tool | *Pandas, Matplotlib, scikit-learn*

Jan 2025

- Performed feature engineering and exploratory data analysis (EDA) on **5,000+** real-world COVID-19 records from **Kaggle**, uncovering trends in recovery and mortality rates across **20+ countries**, identifying key regional disparities
- Implemented data preprocessing with **scikit-learn's SimpleImputer**, improving dataset completeness by **20%**
- Visualized key insights using **Matplotlib**, leading to actionable findings on global health patterns

## SKILLS

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

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

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

**Languages:** English, Spanish, Japanese