

# Diego Arteaga

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## EDUCATION

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**California State University of Northridge** | B.S., Computer Science May 2025  
• Cumulative GPA: 3.93

**College of the Canyons** | A.S., Computer Science; A.S., Mathematics June 2023  
• Cumulative GPA: 3.96 | **Honors:** summa cum laude

### 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

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**Video Editor & Performance 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 **1,000,000+ views** and **25% increase** in retention

**Studio Musician** | *Los Angeles, CA* Nov 2021 - Dec 2024  
• Collaborated with diverse teams of musicians in high-pressure studio environments, meeting strict deadlines while enhancing communication, teamwork, and problem-solving skills—directly applicable to agile software development

## PROJECTS

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**COVID-19 Trend Analysis Tool** | *NumPy, Pandas, Matplotlib, scikit-learn* Jan 2025  
• Analyzed real-world COVID-19 datasets from **Kaggle** with **5,000+** records to uncover trends in recovery and mortality rates across **20+** countries  
• 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

**AI Recipe Recommendation App** | *React, Vite.js, JavaScript* Jan 2025  
• Implemented state management, conditional rendering, and **React** hooks to dynamically handle user inputs and display AI-generated recipe suggestions, creating a seamless user experience  
• Integrated the **Hugging Face API** to leverage AI for generating personalized recipe recommendations based on ingredients list, displaying detailed cooking instructions within an intuitive UI

**Spotify Clone** | *SQL, PHP, Apache, JavaScript* Dec 2024  
• Developed a real-time search bar with **JavaScript** to dynamically filter songs by title, artist, and album, enhancing user interactivity and overall **UX design** while reducing search time by **30%**  
• Designed a **MySQL** relational database to store and retrieve song, artist, & album data, supporting scalable queries  
• Built a responsive **full-stack application** using **PHP** for server-side logic, integrated with a dynamic front-end developed with **HTML, CSS**, and **JavaScript** to focus on **UI design**

## SKILLS

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

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

**Tools:** GitHub, Visual Studio Code, Jira, Jupyter Notebook, Anaconda, NPM, Apache, Docker, AWS

**Languages:** English, Spanish, Japanese