DIEGO ARTEAGA

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EDUCATION

California State University, Northridge — May 2025
Bachelor of Science in Computer Science — *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, Human-Computer Interaction, Networks & Security

EXPERIENCE

Video Editor & Analyst — Nov 2021 - Jan 2025
Los Angeles, CA
- 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 — 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 digital marketing efforts, **increasing audience engagement by 23%**

PROJECTS

Agricultural IoT & Machine Learning Platform | *React, Next.js, Firebase, Pandas, 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
- Building a real-time dashboard with **React, Next.js**, and **Bootstrap,** integrating Arduino sensor data via **Firebase**
- Leveraging **NumPy** and **Pandas** for processing environmental data collected from physical sensors
- Collaborating with a machine learning team working on predictive models for plant sickness and crop growth

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

AI Recipe Recommendation App | *React, Bootstrap, Vite.js, Hugging Face API* — 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

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: GitHub, Visual Studio Code, Jira, Jupyter Notebook, Spyder, Anaconda, NPM, Docker, AWS
Languages: English, Spanish, Japanese