

DIEGO ARTEAGA

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EDUCATION

California State University, Northridge

Master of Science in Data Science

May 2027

Northridge, CA

California State University, Northridge

Bachelor of Science in Computer Science (Summa Cum Laude)

May 2025

Northridge, CA

- **Relevant Coursework in:** Data Structures, Algorithm Design & Analysis, Software Engineering, Machine Learning, Data Mining, Database Design, Probability & Statistics for Data Science, Web Engineering, Networks & Security

EXPERIENCE

Unclassified Paid Intern

Los Angeles Valley College

Sept 2025 - Present

Los Angeles, CA

- Maintained and updated confidential student records from PeopleSoft in **Microsoft Excel**, serving as the Outreach and Recruitment database to support data-driven decisions by college leadership while ensuring data integrity
- Promoted LA Valley College at college fairs, collecting and organizing prospective student data for our database
- Worked with a local Youth Center to assist students with college enrollment and highlight key campus resources

Social Media Manager & Video Editor

Arrowstotle, LLC

Nov 2021 - Present

Los Angeles, CA

- Produced and edited engaging content for **YouTube, TikTok, and Instagram**, optimizing workflow efficiency using **Ableton Live, Adobe Creative Cloud tools (Premiere Pro, After Effects)**, and **Photopea**, improving turnaround time
- Created a data-organized content calendar in **Google Sheets** to improve production status and scheduling strategy
- Analyzed **YouTube Studio** and **TikTok analytics** to identify high-retention patterns and applied A/B testing on thumbnails and posting schedules, driving **over 25 million views** and a **38% increase** in engagement and revenue

Machine Learning Research Intern

California State University, Northridge

June 2025 - August 2025

Northridge, CA

- Led codebase implementation, data preprocessing, and model optimization in a team of 5 for an **IoMT anomaly detection system**, while co-authoring a research paper on deep learning techniques for IoMT anomaly detection
- First author of the research paper, accepted for publication and presented at **IEEE IEMCON 2025 (UC Berkeley)**

PROJECTS

Hybrid IoMT Anomaly Detection System | Python, PyTorch, Scikit-learn, Google Colab, Deep Learning

- Designed a novel anomaly detection system for IoMT networks combining **GraphSAGE (GNN)** and **Performer Transformer** models to detect cyberattacks in medical networks via spatio-temporal graph embeddings
- Preprocessed and integrated four public benchmark IoMT datasets to improve model generalization across diverse attack scenarios; **achieved 96-100% performance**, surpassing state-of-the-art models on key evaluation metrics

Lung Cancer Detection | Python, Jupyter Notebook, TensorFlow, Keras, OpenCV, NumPy

- Developed a tailored **CNN** using **TensorFlow** on the **LIDC-IDRI CT scan dataset**, leveraging **radiologists' XML annotations** to extract malignancy scores and nodule regions, achieving **94% recall** for lung nodule detection
- Preprocessed **10,000+ DICOM images** & applied **data augmentation** techniques to enhance model generalization

Agricultural IoT & Machine Learning Platform | GitHub, Jira, React, Node.js, Python, Postman, Firebase

- Designed a real-time dashboard using **React** and **Bootstrap** to visualize environmental sensor data from **Firebase** within a team of 12 students via **GitHub** and **Jira**, integrating and testing **Python backend APIs**
- Collaborated on machine learning models to correlate environmental data with plant sickness and crop growth
- **Won 1st Place** at **CSUNposium 2025** for presenting a smart farming project and delivering a self-written speech

SKILLS

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

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

Developer Tools: Git, GitHub, VS Code, Jira, Jupyter Notebook, Google Colab, Anaconda, NPM, AWS, Tableau

Certifications: Google Data Analytics Professional Certificate (Coursera, 2025)

Languages: English, Spanish, Japanese