DIEGO ARTEAGA

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EDUCATION

California State University, Northridge · May 2027
Master of Science in Data Science · *Northridge, CA*

California State University, Northridge · May 2025
Bachelor of Science in Computer Science (Summa Cum Laude) · *Northridge, CA*
- **Relevant Coursework in:** Data Structures, Algorithm Design & Analysis, Software Engineering, Machine Learning, Deep Learning, Data Mining, Database Design, Probability & Statistics for Data Science, Web Engineering

EXPERIENCE

Unclassified Paid Intern · Sept 2025 - Present
Los Angeles Valley College · *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
- Represented Los Angeles Valley College at high school college centers, providing one-on-one guidance to students on college applications and post-graduation plans to help support their academic and career goals
- Worked with a local Youth Center to assist students with college enrollment and highlight key campus resources

Social Media Manager & Video Editor · Nov 2021 - Present
Freelance · *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 30 million views** and a **40% increase** in engagement and revenue

Machine Learning Research Intern · June 2025 - August 2025
California State University, Northridge · *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 research paper accepted for IEEE publication; **won Best Paper Presentation** at **IEEE IEMCON 2025**

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