

DIEGO ARTEAGA

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EDUCATION

California State University, Northridge <i>Master of Science in Data Science</i>	May 2027 Northridge, CA
California State University, Northridge <i>Bachelor of Science in Computer Science (Summa Cum Laude)</i>	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 <i>Los Angeles Valley College</i>	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 <i>Arrowstotle, LLC</i>	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 <i>California State University, Northridge</i>	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 <i>Python, PyTorch, Scikit-learn, Google Colab, Deep Learning</i>	
• 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 <i>Python, Jupyter Notebook, TensorFlow, Keras, OpenCV, NumPy</i>	
• 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 <i>GitHub, Jira, React, Node.js, Python, Postman, Firebase</i>	
• 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