Gregory Calderon

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PROFESSIONAL SUMMARY

Computer Scientist with strong foundation in **Python, C++, and applied mathematics**. Experienced in **data analysis, machine learning, and computer vision** with hands-on work in TensorFlow, Pandas, NumPy, and Matplotlib. Proven ability to translate complex datasets into actionable insights through internships, research projects, and hackathons. Adept at building **predictive models, deploying ML pipelines, and communicating results** with clear visualizations.

TECHNICAL SKILLS

Languages: Python, C++, SQL, JavaScript, C, Assembly, HTML5, CSS
Frameworks: Django, Tkinter, PyQt, React
Libraries & Tools: NumPy, Pandas, Matplotlib, Scikit-learn, SciPy, TensorFlow, OpenCV
Cloud & DevOps: AWS Cloud Practitioner (Foundational), Git, GitHub, Agile/Scrum
Specialties: Machine learning, computer vision, data wrangling & visualization, statistical modeling, feature engineering

EDUCATION

California State University Northridge – B.S. Computer Science, Minor in Physics, GPA: 3.88 *(May 2025)*
Los Angeles Mission College – A.S. Computer Science, A.S. Mathematics, GPA: 3.9 *(May 2023)*

EXPERIENCE

Ute Aerospace – Software Engineer Intern ..... *(Jun 2024 – Aug 2024)*

- Designed and deployed full-stack infrastructure with **Django REST and React**, integrating **APIs** for **structured data exchange**.
- Improved web **analytics** and data tracking by implementing logging/monitoring features, enabling real-time usage insights.
- Scheduled to contribute to DO-178-compliant aerospace software, requiring strong **data validation** and reliability standards.

PROJECTS

SAE AERO – Autonomous Aircraft *(Python, Embedded C, RTOS, OpenCV)* ..... *(Jun 2024 – May 2025)*

- Led avionics team to design fully autonomous payload capture/delivery aircraft.
- Integrated sensor data and telemetry into predictive control systems, applying **data-driven optimizations** to improve accuracy.
- Developed **computer vision pipeline** with OpenCV for real-time object detection and localization.

Exo-Stellar Debris Field Identification *(Python, Pandas, NumPy, Matplotlib)* ..... *(Jan 2023 – Jun 2023)*

- Processed and analyzed **17,000+ astrophysical datasets** from NASA's Spitzer & Gaia telescopes.
- Built multi-stage **data filtering and feature extraction** reducing noise and improving signal detection.
- Delivered actionable insights to support astrophysics research using **Python-based statistical analysis.**

AWARDS & LEADERSHIP

- **1st Place**, CSUN Hackathon *(2024)*
- **Avionics Lead**, SAE Aero Team *(2024–2025)*
- **Magna Cum Laude**, CSUN *(2025)*