Gabriel Diaz

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EDUCATION

University of California, Riverside Riverside, CA
Master of Science in Engineering, Data Science **GPA: 4.00** 2027
University of California, Merced Merced, CA
Bachelor of Science, Computer Science and Engineering **GPA: 3.63** 2025
Honors & Awards: Lawrence Livermore National Laboratory Computing Scholarship, Tapia Conference Scholarship, Frances M. Benton Scholarship, HSF Scholar 3x, Dean's List 5x, Chancellor's List, Graduation Honors
Selected coursework: Data Structures, Algorithms, Machine Learning, Applied Data Science, Software Engineering

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, JavaScript, SQL, C, Kotlin, Swift, HTML/CSS
Data & Machine Learning: Pandas, NumPy, Machine Learning, Deep Learning, Statistical Analysis, Data Cleaning, Data Pipelines, Data Visualization, Power BI, Tableau, Excel, Hugging Face Transformers, Exploratory Data Analysis (EDA)
Tools & Platforms: Git, GitHub, GitLab, CI/CD, Google Cloud Platform (GCP), MySQL, Anaconda, VS Code, PowerApps, Dataverse, Power Automate, Power Query, SAP, Salesforce, MATLAB, Arduino

PROFESSIONAL EXPERIENCE

Mercedes-Benz RDNA - OBD Certification & Compliance Intern | Long Beach, CA February 2026 - Present
- Supporting OBD certification and emissions compliance for U.S. market vehicles (CARB/EPA)
- Developing Python-based automation tools and data pipelines to support certification workflows and reporting
- Analyzing vehicle test and in-use data to identify compliance risks and trends
- Preparing technical documentation and summaries for engineering and regulatory stakeholders

Gallo - Reliability and Maintenance Engineering Intern | Modesto, CA July 2025 - December 2025
- Designed and deployed a Python-based automation pipeline to digitize maintenance and reliability workflows, reducing manual processing time by 90%
- Improved data accuracy and efficiency by standardizing inputs and automating analysis of equipment reliability trends
- Applied statistical analysis to support inspection and lubrication planning, contributing to reduced downtime
- Developed dashboards and technical documentation to support data-driven maintenance decisions

UC Merced School of Engineering - Student Research Assistant | Merced, CA September 2024 - June 2025
- Implemented secure AI algorithms in Python and optimized GPU workflows, improving processing speed by 25%
- Conducted exploratory and inferential data analysis for engineering research projects
- Produced reproducible technical documentation, data dictionaries, and experimental reports

UC Merced School of Social Sciences - Student Research Assistant | Merced, CA March 2023 - September 2024
- Automated data processing workflows, improving efficiency by 20% while ensuring data integrity
- Managed large mixed-methods datasets and maintained research documentation
- Created data visualizations in Observer XT and Excel to support faculty analysis and reporting

Trane Technologies - Technical Sales Engineering Intern| Brea, CA May 2024 - August 2024
- Supported analysis of building automation and energy systems for customer-facing solutions
- Developed technical reports and visual summaries used by engineering and sales teams

Medtronic - Product Security Engineering Intern | Mounds View, MN June 2023 - August 2023
- Optimized Python automation scripts, reducing SBOM processing time by 30%
- Analyzed penetration testing requirements and assessed device security risks
- Authored documentation used in internal security evaluations and reporting

LEADERSHIP AND AFFILIATIONS

Management Leadership for Tomorrow - MLT Career Prep Fellow '25 | Merced, CA January 2022 – May 2025
- Completed intensive training in analytical problem-solving, professional communication, and career strategy

SHPE UC Merced - President | Merced, CA May 2023 – April 2024
- Increased chapter membership by 30% through targeted outreach and programming
- Secured $10,000 in funding to support technical workshops and student development initiatives

PROJECTS

Vehicle Mileage & Fuel Logging Application - Full Stack Developer | Merced, CA January 2025 – May 2025
- Built an end-to-end vehicle mileage and fuel tracking system for Agrecom Inc. using Microsoft Power Platform
- Developed a secure Power Apps interface for driver data submission, eliminating manual receipt tracking
- Designed Dataverse data models and automated ingestion workflows using Power Automate
- Built interactive Power BI dashboards to visualize fuel usage, efficiency, and weekly trends
- Delivered automated weekly reports that improved tracking accuracy and enabled data-driven fleet management

Technologies: Power Apps, Dataverse, Power Automate, Power BI, SQL