Gabriel Diaz

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EDUCATION

University of California, Riverside   Riverside, CA
Master of Science in Engineering, Data Science   June 2027

University of California, Merced   Merced, CA
Bachelor of Science, Computer Science and Engineering, **GPA: 3.63**   May 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

Relevant coursework: Advanced Programming, Data Structures, Computer Organization and Assembly Language, Algorithm Design and Analysis, Full Stack Web Development, Introduction to Object-Oriented Programming, Introduction to Human-Computer Interaction, Mobile Computing, Introduction to Artificial Intelligence, Computer Architecture, Software Engineering

TECHNICAL SKILLS

Programming Languages: Python, C++, C, HTML/CSS, Kotlin, Swift, Java, JavaScript, SQL

Software: AutoCAD, Visual Studio Code, Xcode, Arduino, Anaconda, Observer XT, Github, Qt Creator, MS Office, Tableau, Salesforce, Android Studio, PowerApps, Dataverse, Power BI, MySQL, Google Cloud Platform (GCP), Google Colab, Hugging Face Transformers, Unsloth, SAP, Power Query

WORK EXPERIENCE

Gallo - Reliability and Maintenance Engineering Intern | Modesto, CA   July 2025 - Present
- Collaborate with cross-functional teams to analyze equipment and drive improvements in operational reliability.
- Develop comprehensive refurbishment plans for aging equipment, extending asset lifecycles, and reducing capital expenditure by utilizing data-driven analysis.
- Engineer predictive maintenance strategies by developing lubrication and inspection plans for bottling site equipment, reducing unplanned downtime and optimizing asset performance.

UC Merced School of Engineering - Student Research Assistant | Merced, CA   September 2024 - June 2025
- Implemented secure AI algorithms in Python, following industry best practices for privacy and compliance.
- Improved processing speeds by 25% through GPU programming optimization.
- Produced reproducible technical documentation for systems and experimental workflows.

UC Merced School of Social Sciences - Student Research Assistant | Merced, CA   March 2023 - September 2024
- Automated recording and cataloging workflows, boosting data analysis efficiency by 20%.
- Generated comprehensive research documentation, enabling improved experimental reproducibility.
- Managed robotic recording equipment and ensured data accuracy by maintaining and cataloging recordings in Observer XT software.

Trane Technologies - Technical Sales Engineering Intern| Brea, CA   May 2024 - August 2024
- Acquired expertise in building automation systems and controls through hands-on project experience.
- Collaborated with sales engineers to implement HVAC solutions, enhancing commercial systems knowledge.
- Gained insights into Trane's operations across Service, Equipment, and Controls divisions.

Medtronic - Product Security Engineering Intern | Mounds View, MN   June 2023 - August 2023
- Optimized Python scripts for software bill of materials (SBOM) generation, reducing processing time by 30%.
- Conducted risk assessments for software-enabled medical devices, identifying key candidates for SBOM development to bolster patient security.
- Analyzed historical and upcoming penetration testing requirements, contributing to data-driven security.

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

Management Leadership for Tomorrow - MLT Career Prep Fellow '25 | Merced, CA   January 2022 – May 2025
- Selected from a competitive applicant pool for this prestigious professional development program.
- Excelled in solving complex business case studies, showcasing analytical, quantitative, and technical expertise.
- Gained insights into strategic career preparation and professional excellence through intensive training.

SHPE UC Merced - President | Merced, CA   May 2023 – April 2024
- Directed external affairs, including annual university registration and chapter affiliations for SHPE.
- Increased chapter membership by 30% through strategic outreach and targeted events.
- Secured $10,000 in funding, enabling the execution of professional development workshops.