Mario Daniel Jimenez Illesca

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COMPUTER SCIENCE STUDENT

Computer Science undergraduate student with experience and a background in software development, programming and project development seeking the opportunity to apply research theories and concepts in a professional setting.

EDUCATION

San Francisco State University, San Francisco CA. 2025 - 2027
Bachelor of Science (B.S.) in:

- Computer Science

May 2025 - May 2027

College of Marin, Kentfield CA. 2023 - 2025

- Associate of Science (A.S.) in:
  - Computer Science
  - Physical Sciences
- Associate of Arts (A.A.) in:
  - Liberal Arts Emphasis in Natural Science

Simon Bolivar University, Venezuela. 2018 - 2021

- Calculus I and II, Discrete Structures, MatLab

LANGUAGES

Spanish
English

SKILLS

Programming & Scripting: Python, Java, C++, JavaScript, TypeScript.
Data Science & Machine Learning: PyTorch, TensorFlow,, OpenCV, Pandas, NumPy, Matplotlib.
Data Engineering & Databases: SQL, PostgreSQL, MySQL, MongoDB, API Integration (OpenAI, Spotify, USDA).
Web & App Development: HTML, CSS, JavaScript, React, Django, Spring.
Cloud & Deployment: IBM Cloud, Intel DevCloud, Docker.
Soft Skills: Critical Thinking, Communication, Detail-Oriented, Analytical.

PROFESSIONAL EXPERIENCE

Marin Horizon Middle School **September 2025 – Present**
Coding Teacher

- Designed and delivered a custom coding syllabus introducing 6th–8th grade students to programming fundamentals through Scratch.
- Taught core concepts in logic, problem decomposition, and computational thinking, adapting explanations to fit diverse learning styles.
- Collaborated with a college mentor to refine lesson plans and align pedagogy with best practices in computer science education.
- Fostered creativity and problem-solving skills by guiding students in building interactive projects, games, and animations.
- Developed classroom management and mentorship skills while cultivating student confidence in technology and innovation.

June 2025 - August 2025
Boyd Lighting
Archival & Business Operations Intern

- Digitized and organized over 1,000 product images (negatives, transparencies, and photographs) to create a searchable internal knowledge base, improving sales enablement and accelerating design workflows.
- Proposed and designed concepts for a VR-powered virtual showroom and an AI-driven search tool to enhance product discovery, inspire design concepts, and support strategic sales initiatives.
- Gained hands-on exposure to design and engineering workflows, product development processes, and internal marketing strategies in a 100-year-old luxury lighting company.
- Contributed to discussions on improving documentation systems and preserving intellectual property for future use in sales, design, and training.

Dayton Financial **April 2025 - June 2025**

Software Developer (Contract)

- Designed and deployed a production-ready quoting platform that replaced complex spreadsheet workflows, saving the company thousands in operational costs.
- Built real-time buyer-seller dashboards with interactive spreadsheet interfaces featuring live updates, cell-level editing, and infinite scrolling.
- Implemented secure role-based access control to ensure data privacy across multiple user types.
- Utilized modern technologies including Next.js, TypeScript, React, Firebase, and TanStack Table to deliver a scalable, maintainable system under a one-month development cycle.

Bridge the Gap Tamalpais High school **January 2025 - May 2025**

Tutor

- Provided academic support in mathematics, focusing on algebra, geometry, and foundational problem-solving skills for high school students.
- Delivered personalized tutoring sessions in a community-based setting, adapting instruction to meet diverse student learning styles.
- Fostered student confidence and self-reliance by emphasizing conceptual understanding over rote memorization.
- Collaborated with staff and fellow tutors to align support strategies with classroom instruction and student progress.

Marin Tutors **January 2025 - May 2025**

Tutor

- Tutor highschool students in statistics, providing support in probability, hypothesis testing, regression analysis, and data interpretation.
- Conduct both online and in-person tutoring sessions, adapting teaching methods to fit individual student needs.
- Explain key statistical concepts using real-world examples to enhance student comprehension and problem-solving skills.
- Encourage independent thinking by guiding students through assignments rather than providing direct solutions.

College of Marin **August 2023 - May 2025**

Tutor

- Mentored and support undergraduate students with the Computer Science and programming coursework.
- Reviewed scripts on Python, Java or C++ to provide students with feedback or clarification on bugs.
- Guided students to generate the appropriate code for the assignment.
- Provided faculty with class curriculum and provide reports on student support.
- Strategized to create new methods to identify student use of AI in assignments and to what extent it could be used.

Paper.co **January 2025 - March 2025**

Tutor

- Mentored students in math and computer science, providing guidance on problem-solving techniques and programming concepts.
- Analyzed students' assignments to clarify complex topics and help their learning method.
- Developed personalized strategies to encourage student engagement and motivate independent learning.
- Collaborated with students to formulate solutions for technical challenges, evaluated their understanding, and recommended improvements.
- Researched emerging trends in online education to enhance tutoring methodologies and support diverse learning styles.

University of California Merced **July 2024 - August 2024**

Intern - CalTeach

- Collaborated with a PhD Physics student to enhance learning on dark matter using Python and Jupyter Notebooks, applying libraries such as Astropy and Matplotlib.
- Developed educational materials and strategies to improve STEM learning outcomes for K-12 students.
- Facilitated staff meetings to identify challenges and implement innovative teaching methods.
- Analyzed student progress data to adapt teaching techniques and ensure a deeper understanding of scientific concepts.
- Integrated computational tools to assist in data visualization and analysis, strengthening curriculum development for diverse learning environments.

College of Marin **June 2024 - July 2024**

Intern - Summerbridge

- Developed an automated Python program to streamline daily attendance tracking, generating PDFs for efficient reporting to program leadership.
- Built rapport with ESL students, fostering a welcoming environment that supported their transition to college life.
- Facilitated group bonding activities, helping students connect with peers and enhance their English language skills.
- Conducted regular one-on-one and group meetings with students to address academic concerns and provide personalized guidance.
- Collaborated with staff to design strategies that improved student engagement and learning outcomes.
- Assisted students in exploring college pathways and career opportunities, encouraging their aspirations for four-year transfers.

Full Fiestas K&M - Bejuma, Venezuela **September 2019- March 2020**

Chatbot Developer

- Networked and negotiated costs to implement a chatbot that would improve business services and provide virtual customer support using AI.
- Applied Data Analysis to categorize and create the appropriate AI model with the variety of services of the company.
- Engineered API protocol using Node.js to deploy the chatbot.

PROJECTS

Visit my website for the most up-to-date information.
https://nochinxx.github.io/

Nutrition Tracker - College of Marin, CA **Spring 2025**
https://nutrition-nextjs.vercel.app

- Developed a Nutrition Tracker web application using React, Next.js, and Firebase to help students manage and analyze their dietary intake.
- Integrated the USDA API to fetch nutritional data, enabling real-time insights into food composition and calorie tracking.
- Designed and implemented interactive data visualizations using Recharts to present macronutrient distributions and weekly intake trends.
- Optimized the app's performance and user experience by implementing responsive design and server-side rendering with Next.js.

Spring 2024

Statistic Library

- Developed scripts in python to solve statistical problems.
- Arbitrated with College of Marin faculty to allow the use of the programs .
- Systematized problem solving for peers to understand the statistical processes.
