# ERWIN MEDINA
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GITHUB | LINKEDIN | PORTFOLIO

## EDUCATION

**California State University, Fullerton**                                    Expected December 2025
Master of Science - Computer Science

**General Assembly**                                                                          May 2021
Software Engineering Immersive Bootcamp

**University of California, Irvine**                                                      June 2017
Bachelor of Science - Applied and Computational Mathematics

## SKILLS

**Languages:** C++ | C# | HTML | CSS | JavaScript | MySQL | Python | Visual Basic
**Frameworks:** .NET | ASP.NET | Bootstrap | Django | Express | React
**Additional Tools:** BeautifulSoup | Excel | Git/Github | Jira | Node.js | Photoshop | Visual Studio

## PROJECTS

**Nonprofit Financial Predictor — Github** – CSS | Django | HTML | Javascript | MongoDB | Pandas | Python
- Developed a full stack application for comprehensive nonprofit financial analysis, integrating data acquisition, machine learning predictions, and comparative visualizations.
- Utilized MongoDB to manage and structure a scalable and flexible database, accommodating organizational profiles and a decade of financial filings.
- Created visualizations to highlight state-level financial dynamics and support strategic decision-making.

**The Golden Boot — Github —** Bootstrap | CSS | Express | HTML | Node.js | JavaScript | React | Redis
- Developed a mobile-friendly, responsive full-stack application designed to handle soccer information.
- Utilized API endpoints using Express to fetch and serve soccer data from an external football-data API.
- Implemented server-side caching using Redis to improve performance and reduce the load on external API.

**Pet Transfer — Github —** AWS | Bootstrap | Express | Heroku | JavaScript | MongoDB | Node.js | React
- Developed a full-stack application that helps users find local pets that need adopting.
- Utilized a third party API to populate form fields; implemented JSON token-based authentication.
- Enhanced UX by highlighting stories using Trello and enabled Google Maps API to filter pets by distance.

## EXPERIENCE

**Paramount+**                                                                                  Remote
247Sports - Software Engineering Intern                           June 2024 — August 2024
- Completed diverse tasks, ranging from ensuring correct flagging of specific key-value pairs, to creating and validating tests for expected values, as part of a Test-Driven Development (TDD) approach.
- Managed and resolved tickets in Jira, adhering to a structured process for migrating local code changes from local branches to production environments.
- Assisted in refactoring and migrating monolithic code to a modern, modular architecture, enhancing system maintainability and performance.

**VCI Construction, LLC**                                                              Anaheim, CA
IT Data Specialist                                                          October 2021 — June 2024
- Automated the process of creating 20+ Excel workbooks in Visual Basic, consisting of over 6000 permits and permit statuses, for the construction and project management team, reducing creation time by over 100%.
- Managed and controlled permit statuses by maintaining and updating information in the Excel database management tool, implementing checks, balances, and error handlers to minimize crashes.

- Increased the efficiency of the 3GIS team workflow by automating manual processes, increasing the accuracy of map status updates and reducing the processing time by over 50%.
- Served as the primary point of contact for all Excel-related tasks, handling issues with broken Google Sheets and individual workbooks, ensuring smooth and efficient operations.

**Paramount+**                                                                                                  El Dorado Hills, CA

MaxPreps - Software Engineering Intern                                                          June 2023 — August 2023

- Engineered high-performance API endpoints in C# for MaxPreps' web application, replacing legacy systems, enhancing loading speeds, and ensuring flexible data retrieval for React Front End integration.
- Led the development of an in-house web scraping tool using Python/BeautifulSoup, enabling the extraction of school names, scores, and leagues from states nationwide, increasing MaxPreps' national coverage.
- Migrated old/legacy endpoints from an ASP.NET Web Forms monolith to a modern .NET Core APIs, transitioning application infrastructure from expensive Windows servers to cost-effective Linux environments.
- Participant in daily stand-ups, employing Agile methodologies and Jira for seamless communication, task prioritization, and enhanced project transparency.
- Developed proficiency in Git/GitHub version control, ensuring smooth production deployment for 100k+ users, and utilized Visual Studio for optimized, industry-standard coding practices.

**Revel Energy, LLC**                                                                                                   Irvine, CA

Energy Analyst                                                                                       July 2018 — February 2021

- Automated functions and VBA scripts, reducing preliminary proposal development by over 50%.
- Utilized XML/CSV data sources consisting of over 35,000 data points, analyzing metrics with in-house software, tailoring a renewable solution utilizing customer energy usage and annual cost for commercial property owners.
- Extrapolated and interpolated missing data points using projects with similar metrics in location, size, energy usage, and energy rate plan, allowing for a more refined and accurate analysis.
- Collaborated with business developers daily to build out preliminary design layouts in Sketchup and AutoCAD, utilizing the customer's requests, yet also complying with California Fire Code.