Mohammed Zaid

mdyasinzaidabir@gmail.com | Lake Elsinore, CA | linkedin/mohammed-zaid | github.com/mzaid03 | 562-417-5854

EDUCATION

University of California, San Diego   **June 2026**
B.S. - Mathematics & Computer Science
Relevant Coursework: Advanced Data Structures, **Software Engineering**, Supervised **Machine Learning**, Components and **Design Techniques** for Digital Systems, Introduction to Numerical Analysis, Modern Algebra II

WORK & LEADERSHIP EXPERIENCE

UCSD Associated Students   **La Jolla, CA**
Campus-Wide Senator   *April 2025 - Present*
- Strategically managed an **$8 million** operational budget, implementing rigorous oversight processes and developing targeted funding initiatives that efficiently allocated resources across campus priorities.
- Orchestrated management systems for **600+ student organizations**, designing streamlined approval processes and resource allocation protocols that enhanced club operations and campus engagement.

VEX Robotics   **Lake Elsinore, CA**
Founder & President   *June 2021 - July 2022*
- **Programmed 1,200+ lines of C** for autonomous object-manipulation, integrating motor control, sensor fusion, and path planning; served as **lead driver in 20+ test sessions**, boosting **task speed by 35%** and **reducing errors by 30%** through iterative debugging, **PID** tuning, and real-time adjustments.
- Architected the robot's control systems using object-oriented design principles, developed comprehensive technical documentation, including **UML** diagrams, and system architecture specifications.

UCSD Information Desk   **La Jolla, CA**
Student Administrative Department   *September 2024 - Present*
- An orchestrated real-time resource allocation system for optimizing student workflow efficiency, implementing data-driven scheduling algorithms that reduced station transition times by **15%**.
- Developed and executed escalation protocols for priority customer requests, implementing a structured methodology that ensured **99%** on-time delivery of complex orders while maintaining quality standards.

PROJECTS - www.mohammedz.com

FIFA Rankings & Political Corruption Analysis | *Pandas, Matplotlib, Statistical Modeling, Data Analysis*
- **Engineered** a robust data science pipeline to analyze FIFA rankings alongside CPI, press freedom, and GDP indicators, employing statistical modeling and **Python-based visualizations** to reveal long-term correlations between political corruption, institutional strength, and patterns of state-sponsored sportswashing in international football tournaments.

IoT Botnet Detection System | *Python, NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, Machine Learning*
- Built a machine learning pipeline on the **UCI N-BaIoT dataset** (7M+ rows, 115 features, 9 IoT devices, 8 attack types); performed preprocessing by removing **157k+ duplicates**, correcting a **92.1% imbalance**, and applying **Min–Max scaling**. Trained a Decision Tree (depth = 6,500 samples/leaf), achieving 99.96% accuracy, precision, recall, and F1-score on **205k test samples** with only **86** errors, validated through detailed correlation heatmaps, and strategically positioned for scalable deployment with SVMs.

Islamic Prayer Reminder | *HTML, CSS, JavaScript, Aladhan API, Open-Meteo API, Web UI/UX*
- Developed a location-based Islamic prayer web app using HTML, CSS, and JavaScript, integrating Aladhan and **Open-Meteo APIs** for dynamic Salah times, Hijri dates, and Quranic verses, with animated dhikr titles, interactive Hadith, dark mode, and embedded prayer guides, delivering responsive, accessible, and spiritually enriching real-time functionality.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, MATLAB, C, C++ **(Intermediate)**
Libraries & Tools: React, Tailwind CSS, Next.js, Git, Node.js, Firebase, Figma, HTML, CSS, Pandas, Matplotlib
Managerial Skills: Project management, team leadership, workflow optimization, strategic thinking, user-centered design, accessibility, quality assurance, version control, data integrity, cross-functional collaboration