

Mohammed Zaid

mdyasinzaidabir@gmail.com | Lake Elsinore, CA | linkedin/mohammed-zaid | github/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
- Advocated for comprehensive student needs through data-driven policy development, collaborating with administration to implement solutions that measurably improved campus experience and services

VEX Robotics

Lake Elsinore, CA

Founder & President

June 2021 - July 2022

- Programmed autonomous object manipulation algorithms in C for the team's robot, serving as lead driver during testing, optimizing system performance through iterative debugging 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
- Pioneered the school's first-ever finals appearance in the VEX Robotics competition, implementing advanced MATLAB simulations for motion planning and mechanical stress analysis that secured 2nd place overall

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

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.
-

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, MATLAB, C, C++

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