

# Mohammed Zaid

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## 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

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## 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
- Executed critical departmental decisions through structured analysis frameworks, ensuring alignment with strategic objectives while maintaining transparent communication with stakeholders

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 Support*

September 2024 - Present

- 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
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## PROJECTS

**FIFA Rankings & Political Corruption 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.

**Huffman Code Decypher | C, Data Structures, Algorithms, Binary Trees**

- Architected a high-performance computational pattern recognition system utilizing Huffman tree algorithms in C, implementing optimized binary encoding techniques to achieve sub-linear time complexity for decryption operations while maintaining  $O(\log n)$  space efficiency
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## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, MATLAB, 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