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

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

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.

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

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