

# Mohammed Zaid

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

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## EDUCATION

University of California, San Diego

June 2026

**B.S. - Computer Science & Mathematics**

**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 school's first-ever finals appearance in 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

UCSD Cafe Ventanas

La Jolla, CA

*Student Operations Lead*

*September 2022 - June 2024*

- Led and developed a diverse team of 80 staff members, implementing structured performance monitoring systems and conducting regular meetings that fostered effective interdepartmental communication
  - Spearheaded strategic funding initiatives and financial oversight operations, continuously analyzing profit margins and implementing data driven adjustments that optimized store profitability
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## PROJECTS

**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

**Managerial Skills:** Project management, team leadership, workflow optimization, strategic thinking, user centered design, accessibility, quality assurance, version control, data integrity, cross functional collaboration