

Mohammed Yasin Zaid

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EDUCATION

University of California, San Diego

B.S. in Mathematics & Computer Science - GPA: 3.50, Dean's Honors

La Jolla, California

Expected Graduation, March 2027

Relevant Coursework: Algorithmic Design and Analysis, Computer Systems Organization, Operating Systems, Software Engineering, Networks and Communications, Digital Architecture, Computation and Hardware Acceleration

EXPERIENCE

Muslim Tech Collaborative

La Jolla, CA

Vice President

September 2022 - Present

- Taught **150+** students C++ and software development tools, including Git, Valgrind, gdb, JUnit, and Unix architecture for data structure courses.
- Constructed **10+** full-stack apps using **React/Node.js**, applying agile sprints to boost member skills.
- Developed **Machine Learning pipelines** with TensorFlow, streamlining preprocessing and training to reach **99%** accuracy.

VEX Robotics

Lake Elsinore, CA

Founder & President

August 2021 - June 2022

- Formed an organization of **100+** members and served as a mentor, motivator, and team-builder.
- Applied **data-driven** tuning to boost robotic precision by **50%** and cut operational errors by **30%** using **C**.
- **Troubleshoot embedded** control systems and optimized performance for high-speed robot operation.

PROJECTS

Task Manager

August 2025 - Present

- Developed a web application with a team of 3 for students to keep track of homework assignments via a to-do list and calendar.
- Emphasized **full-stack development** using **HTML/CSS** for front-end design and **JavaScript** for dynamic user interaction.
- Worked in an **Agile** environment with weekly sprint-planning meetings and helped decompose features into **sprint backlogs** for iterative delivery.

IoT Botnet Detection System

August 2025 - September 2025

- Refined scalable **ML pipeline** via UCI N-BaIoT dataset, enabling analysis of **7 Million +** records to detect device-specific cyberattacks, reducing potential system downtime and data breaches.
- Improved data cleaning and rebalancing by removing **157K+** duplicates and correcting class imbalance, improving dataset fairness by **92%**.
- Trained a Decision Tree Classifier, achieving **99.96%** accuracy with only **86** misclassifications on **205K** samples.

FIFA Rankings & Political Corruption Analysis

March 2025 - June 2025

- Developed a **data analysis pipeline** in **Python** to study governance impacts on FIFA rankings across **106** countries.
- Automated **1M+** CPI, press freedom, and GDP data transformations, revealing strong correlations between corruption levels and national team performance.
- Built **25+** visualizations and **3** K-Means clusters to uncover statistical patterns linking governance indices with FIFA standings.

SKILLS

Programming Languages: Python, Java, JavaScript, TypeScript, C++, C, Go, MATLAB

Frameworks/Technologies: React.js, Next.js 14, Node.js, Tailwind CSS, Redis, Prisma, TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib

Cloud & DevOps: AWS (EC2, S3, Lambda), Docker, CI/CD Pipelines, Linux, Microservices, Railway

Databases & Development Practices: PostgreSQL, SQL, NoSQL, Agile, SDLC, Debugging, Distributed Systems, Operational Excellence

Certifications: HackerRank – Advanced Python, Advanced JavaScript, Basic SQL, Basic Go, Software Engineer