Mohammed Yasin Zaid

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EDUCATION

University of California, San Diego — **La Jolla, California**

B.S. in Mathematics & Computer Science - GPA: 3.50, Dean's Honors — ***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**.
- **Troubleshot 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.
- 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 how governance impacts FIFA rankings across **106** countries.
- Automated more than **1M** CPI, press freedom, and GDP transformations, uncovering corruption ranking links.
- Built **25+** visualizations and 3 **K-Means** clusters to identify statistical links between governance indices and FIFA rankings.

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