Zaeem Amin

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EDUCATION

University of California at San Diego   *June 2026*

B.S - Cognitive Science (Machine Learning & Neural Computation) | Minor in Computer Science

Relevant Coursework: Calculus 1-3, Linear Algebra, Introduction to Java, Data Structures and Algorithms, OS Systems and C, Introduction to Python, Discrete Mathematics, Statistics

PROJECTS

PokeMatcher | San Diego, CA   *December 2024 - January 2025*

- Engineered an iOS application with Swift and Core ML matching users to Pokémon through facial feature analysis, processing 100+ facial features and traits to succeed 98% detection
- Integrated a RESTful API system connected to PokeAPI database with over 1000 Pokémon type matching and machine learning-based recommendation engine, processing 50ms response time

Website | San Diego, CA   *October 2024 - Present*

- Architected a portfolio website using React.js, HTML, and JavaScript with modern web practices through Vercel implementation while maintaining sub-2 second load times across all devices
- Executed a component-based architecture with Redux, custom hooks, and automated testing achieving 90% code coverage, while integrating CI/CD pipeline through GitHub Actions

Rubik's Cube | San Diego, CA   *June 2023 - August 2023*

- Enhanced existing Java-based Rubik's cube simulator by utilizing CFOP method, advanced algorithms, reducing computation time by 75% and optimizing machine learning predictions
- Transforming cube mechanics with refined turn speed algorithm and customized movement patterns, reducing average solution steps from 100+ to 65 moves and increasing color neutrality

Minesweeper | Greensboro, NC   *July 2018 - August 2018*

- Constructed a Java-based Minesweeper featuring recursive tile reveal algorithm, efficient mine detection system using 2D arrays with $O(1)$ lookup time, and adaptive difficulty scaling
- Engineered a comprehensive game management system with MongoDB integration for persistent storage, real-time analytics tracking player patterns, and custom sprite rendering engine

EXPERIENCE

Triad Tutoring | Greensboro, NC   *August 2020 - May 2021*
Founder

- Co-founded and managed a 15 person virtual team for a tutoring platform serving 50+ students across elementary, middle, and high school levels during quarantine by providing a learning space
- Orchestrated a structured curriculum development coordinating 8 tutors and school administrators, driving 15% grade improvement through data-driven teaching methods

ICNA Helping Hands | Greensboro, NC   *June 2018 - March 2020*
Ambassador

- Coordinated with team of 20+ volunteers to organize and revolutionize aid distribution, with bi-weekly assessments and training volunteers in logistics, resulting in 30% faster distribution
- Pioneered and managed a $50,000 budget allocation system through international partnerships and digital tracking enhancing efficiency by 40%, deploying provisions for 75+ families

TECHNICAL SKILLS

Programming: Java, Python, C, Swift, HTML/CSS, JavaScript (React.js, Node.js), RESTful APIs
ML & Tools: Neural Networks, Computer Vision, Git, MacOS, Windows, Visual Studio, Linux
Analysis: Statistical Analysis, Project Management, Quantitative Analysis, SQL, MongoDB