Omar Camara

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EDUCATION

Syracuse University   **Anticipated Graduation: May 2025**
Bachelor of Science, Computer Science

- Engineering and Computer Science Dean's List
- **Related Coursework:** Data Structures, Advanced Front End Web Design, Systems and Network Programming, Software Specification and Design, Intro to Analysis of Algorithms, Software Implementation, Web System Architecture and Programming, Introduction to Artificial Intelligence, Design Operating Systems

SKILLS

- **Programming Languages:** Java, Python, C, SQL, JavaScript, TypeScript
- **Web Development:** HTML5, CSS3, SASS, Node.js, ReactJS, Next.js
- **Frameworks, Libraries, and Tools:** NumPy, Tkinter, Pytest, Git, GitHub, Visual Studio Code, MySQL

PROJECTS

Volunteer Matching Platform - *Python (Flask), SQLite, Pytest, ReactJS*   **Sep. 2024 - Present**
- Developed a platform to match willing volunteers with organizations in need of assistance
- Implemented and tested RESTful API endpoints for backend functionality
- Integrated the SQLite database for data management and optimized queries
- Utilized Pytest to create unit and integration tests to ensure robust functionality

AI Tic-Tac-Toe Game - *Python (NumPy)*   **Sep. 2024 - Oct. 2024**
- Developed an AI-driven Tic-Tac-Toe game using Minimax and Alpha-Beta Pruning algorithms
- Implemented both Alpha-Beta Pruning and Regular Minimax to optimize game decisions, reducing computation time by an average of over 90%
- Integrated NumPy for efficient game-state management and created performance testing to compare algorithm speeds over multiple game iterations
- Automated AI vs. AI gameplay for performance evaluation, showcasing algorithmic efficiency

BarakahBites (Hackathon Project) - *Python (Flask), MySQL, ReactJS, SASS*   **Oct. 2024 - Oct. 2024**
- Led backend development of API endpoints for seamless data exchange between dining halls and charities.
- Integrated MySQL database to store and manage real-time food availability and pickup requests
- Utilized Axios in the frontend to connect and communicate with the backend endpoints
- Collaborated with a cross-functional team to ensure seamless user experience and efficient data handling

Portfolio Website - *HTML, CSS, JavaScript*   **Jan. 2024 - Jan. 2024**
- Developed a personal portfolio website to showcase 3 years of technical skills and projects
- Implemented smooth scrolling and a dynamic dark/light theme toggle using JavaScript to embed interactivity

EXTRACURRICULAR

- **Clubs**: National Society of Black Engineers, ColorStack, CuseHacks, Information Security Club, Syracuse University Orange Robotics

WORK EXPERIENCE

Allied Risk Management   **Oct. 2022 – Aug. 2023**
Security Guard   *New York, NY*

- Monitored security protocols, enhancing team communication and decision-making in high-pressure situations