AMIT TZADOK

Chappaqua, NY • amit.tzadok@icloud.com • github.com/amit-tzadok • linkedin.com/in/amit-tzadok •
amit-tzadok.github.io/Amit/

EDUCATION

University at Buffalo, The State University of New York, Buffalo, NY
Bachelor of Science: Computer Science, Minor in Mathematics GPA: 3.495/4.0   **August 2021- May 2025**
Relevant Courses: Algorithms, Data Structures, Machine Learning, Web Development, Computer Organization, Software Engineering, CodePath iOS Development

PROJECTS

ML Visualizer - React, TypeScript, Vite, TensorFlow.js   **Fall 2025**
- Implemented real-time visualizations of decision boundaries using optimized canvas rendering, achieving sub-100ms update latency for interactive learning behavior.
- Integrated a chatbot to provide users with contextual explanations and guidance about algorithms and visualizations.
- Designed a responsive UI to simplify complex ML concepts.

Digit Recognition and Classification - Python, TensorFlow, MNIST Dataset   **November 2024**
- Built and optimized a multilayer perceptron (MLP) achieving 98.2% classification accuracy on MNIST.
- Performed data normalization, visualized predictions, and refined the model using confusion matrices.

Cat Cafe App - Godot, gdscript, and C++   **Fall 2023**
- Spearheaded the design and implementation of 4 core minigames and key UI components, enhancing user engagement.
- Collaborated in sprint planning and delivered features on schedule.

"Explore" iOS Application - Swift, UIKit, Parse Server, Postman   **Spring 2022**
- Implemented a 7-endpoint RESTful API enabling 500+ potential students to post, view, and favorite 15+ campus locations.
- Integrated MapKit and tested API behavior using Postman.

LEADERSHIP & COMMUNITY INVOLVEMENT

Treasurer | Association for Computing Machinery (ACM) | University at Buffalo   **October 2021 - May 2025**
- Managed and executed a $7,000 annual budget, overseeing activity spending for the 200+ member organization.
- Coordinated fundraising initiatives and organized technical workshops and hackathons.

Technical SKILLS

Programming Languages: Python, C, JavaScript, Scala, Swift
Frameworks & Tools: React, Node.js, TensorFlow.js, Git, Xcode, Godot, Vite, Flask, VSCode, IntelliJ, Figma, Photoshop, Excel