

# AMIT TZADOK

amit.tzadok@icloud.com • 914-208-1937 • <https://github.com/amit-tzadok> • [www.linkedin.com/in/amit-tzadok](http://www.linkedin.com/in/amit-tzadok)

## EDUCATION

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**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

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**ML Visualizer** - React, TypeScript, Vite, TensorFlow.js

**Fall 2025**

- Built an interactive web application to visualize machine learning classifiers including KNN, linear and polynomial perceptrons, and MLPs.
- Integrated a CopilotKit-powered chatbot to provide users with contextual explanations and guidance about algorithms and visualizations.
- Designed a modern, responsive interface to make algorithmic concepts intuitive and engaging for users.

**Digit Recognition and Classification** - Python, TensorFlow, MNIST Dataset

**November 2024**

- Designed a multilayer perceptron (MLP) to classify handwritten digits (0-9) from the MNIST dataset, leveraging softmax for multiclass classification.
- Preprocessed data for normalization and optimized the model to achieve high classification accuracy.
- Visualized predictions and confusion matrices to evaluate performance and refine the model.

**Cat Cafe App** - Godot, gdscript, and C++

**Fall 2023**

- Contributed to the development and implementation of a simulation application using the Godot game engine.
- Designed minigames and user interfaces to enhance user engagement and customization features.
- Collaborated with a team to plan sprints, track progress, and deliver a polished product on schedule.

**“Explore” iOS Application** - Swift, UIKit, Parse Server, Postman

**Spring 2022**

- Used Swift to implement an API that allows students to post, view, and favorite campus locations.
- Integrated MapKit to display campus hotspots on Apple Maps, such as printers via the Wepa Printer API on Postman.
- Conducted usability testing to ensure a seamless user experience and fixed bugs in API responses.

## LEADERSHIP & COMMUNITY INVOLVEMENT

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**Treasurer** | Association for Computing Machinery (ACM) | University at Buffalo

**October 2021 - May 2025**

- Demonstrates financial literacy and leadership in managing the club's activity spending by formulating a comprehensive budget and authorizing expenditures.
- Strategizes and oversees fundraising initiatives, securing resources to support events and workshops.
- Actively participates in organizing hackathons and technical talks to foster a vibrant computing community.

## Technical SKILLS

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**Programming Languages:** Python, C, JavaScript, Scala, Swift

**Web Technologies:** React, Node.js, Vite, CSS, HTML

**Tools:** VSCode, IntelliJ, Xcode, Git, Godot, Flask, Figma, Photoshop, Excel