

# AMIT TZADOK

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## 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, 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 chatbot to provide users with contextual explanations and guidance about algorithms and visualizations.
- Designed a responsive UI to simplify complex ML concepts for learners.

**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**

- Contributed to the development of an iOS app using Parse RESTful APIs that lets students post, view, and save campus locations.
- Integrated MapKit and tested API behavior using Postman.

## LEADERSHIP & COMMUNITY INVOLVEMENT

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**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 events averaging 80+ attendees.
- Coordinated fundraising initiatives and organized technical workshops and hackathons.

## Technical SKILLS

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

**Frameworks & Tools:** React, Node.js, TensorFlow.js, Git, Xcode, Godot, Vite, Flask, VSCode, IntelliJ, Figma, Photoshop, Excel