

Karim Elshabassy

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EDUCATION

Hunter College of The City University of New York

Bachelor of Arts in Computer Science

NYC

Expected in May 2025

EXPERIENCE

Codepath Intro to Web Development

Fall 2023

Brooklyn, NYC

- Developed responsive web applications using HTML, CSS, and JavaScript, demonstrating proficiency in front-end web development principles.

PROJECTS

Breast Cancer Detection (Class Project) | Python

Summer 2024

- Developed a program using the scikit-learn library to predict if a tumor is benign or malignant, visualizing results with decision trees and scatter plots.
- Utilized multi-core processing to run three decision trees and three scatter plots simultaneously, comparing them against normal runs using metrics like accuracy, sensitivity, and specificity.
- Created an SVM ensemble with different kernels (linear, RBF, polynomial), combined predictions through majority voting, and compared training times.

Block Breaker | Python

Spring 2024

- Created a block breaker game using Tkinter, allowing players to choose the length and width of the blocks they will play against.

Advocacy Website (Codepath) | HTML, CSS, JavaScript

Fall 2023

- Built a website advocating for countries experiencing famine and extreme hardships, raising awareness about global issues.
- Implemented web development techniques including box models, navbars, dark mode, flexbox, pseudo-selectors, DOM manipulation, events, forms, and basic JavaScript animations.

Portfolio Website | HTML, CSS, JavaScript

July 2023

- Developed a portfolio website to showcase detailed information about completed classes and projects.
[Portfolio website](#)
- Used VS Code for development and Netlify for hosting.

RELEVANT CLASSES

Algorithm Design and Analysis: Learned and implemented single and doubly linked lists, stacks, queues, binary search trees (BSTs), and heaps, as well as multiple hashing and sorting techniques in C++.

Computer Architecture: Learned boolean algebra, data representation, combinational circuits and minimization, sequential circuits, and some assembly language programming in MIPS.

TECHNICAL SKILLS

Languages: C++, HTML, CSS, Python, JavaScript, TypeScript, SQL

Developer Tools: Git, GitHub, VS Code, Visual Studio, Replit, Expo, Node.js, Anaconda, Spyder, Firebase

Libraries: NumPy, Pandas, Matplotlib, Tkinter, Random, Scikit-learn

CERTIFICATES

Google Data Analytics

Summer 2023

- Acquired key analytical skills, including data cleaning, analysis, and visualization using spreadsheets, SQL, R programming, and Tableau tools.

CodePath Intro to Web Development

Fall 2023

- Implemented animations, flexbox, box model, DOM manipulation, events, and forms using HTML, CSS, and JavaScript to create a website advocating for global issues.