

Zara Amer

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Education

Hunter College

Aug 2022 - May 2026

Bachelor of Arts in Computer Science

New York, NY

- **Relevant Coursework:** Data Structures and Algorithms in C++, Discrete Mathematics, Calculus, Linear Algebra, Computer Architecture, Practical Web Development, Computer Theory, Statistics, Robotics, Digital Product Development

Experience

Justworks

Jan 2024

Software Engineer Intern

New York, NY

- Restructured Justworks' file upload system to utilize Amazon S3 infrastructure, offloading burden from the company's backend server.
- Built a Node server to generate pre-signed URLs that allow direct uploads from the browser.
- Integrated GraphQL mutations to handle file validation, resizing, and storage, enhancing the efficiency of the upload process by 80%.
- Converted 3 client apps to use the new file upload system.

Kodely

Apr 2023 - Present

Coding Instructor

New York, NY

- Lead a dynamic enrichment program that caters to 300+ students, teaching foundational coding and design skills through hands-on, real-world applications.
- Demonstrate unwavering commitment to effective classroom management and instructional excellence, consistently delivering engaging and transformative learning experiences.

J.P. Morgan Chase

Jan 2023

Software Engineer Intern

New York, NY

- Collaboratively developed a user metrics system for the CCB Internal Appstore, enabling the tracking and comprehensive analysis of user interactions.
- Designed an intuitive UI with React, HTML, and CSS that renders metrics into an accessible dashboard view, empowering company engineers to glean insights from app data.

Projects

Nibble.io | REACT, HTML, CSS, JavaScript, MongoDB

Jan 2024

- Developed a food blog with features that allow users to create, edit, and delete posts, as well as interact with others through likes, comments, and follows.
- Implemented MongoDB as the database solution to store user information and their content, ensuring efficient data management and scalability as the platform grows.

Spam Detection Model | Python

Oct 2023

- Trained the machine learning model on a dataset of 5,700 SMS messages, achieving a 98% accuracy rate in distinguishing spam from legitimate messages.
- Implemented vectorization techniques to convert plain text SMS messages into feature vectors for model comprehension and used Scikit-learn for classification, regression, and anomaly detection.

Leadership

Vice President | Undergraduate Student Government

Apr 2024 - Present

- Facilitated communication between the Executive Board and student body, ensuring effective governance.
- Managed student resources and affinity spaces, fostering a welcoming environment.
- Chaired the Hiring and Firing committee, demonstrating leadership and decision-making skills.
- Led the Judiciary Board, ensuring fair and impartial decision-making processes.

Technical Skills

Languages & Technologies: C++, JavaScript, Python, HTML, CSS, PostgreSQL, GraphQL, RESTful APIs, Git

Frameworks: React, Express, Node

General: Leadership, Teamwork, Collaboration, Problem-Solving, Organization, Agile Methodologies