

EDUCATION

Mercy University, Dobbs Ferry, NY *Bachelor of Science in Computer Science*

May 2025

- GPA: 3.19
- Relevant Coursework:
 - Calculus I & II, Foundations of Computing I & II, Discrete Structures, Data Structures, Principles of Software Engineering I & II, Analysis of Algorithms, Computer Architecture, Intro to Cybersecurity (Comptia Security+ content), Computer Network II (Comptia Network+ content), Database Management Systems [with SQL], Senior Capstone Project, Artificial Intelligence, Linux Admin, Network Security, Web Site Admin., Probability and Statistics, Linear Algebra.

TECHNICAL SKILLS

- Programming Languages: Java (Spring Boot/Spring Framework), SQL, JavaScript, TypeScript, HTML, CSS, Python, C# (ASP.NET)
- Operating Systems: Linux (Ubuntu, Kali Linux), Windows, MacOS
- Software: MySQL, DBSM, React, React Native, Prisma, Node.js, EJS, Bootstrap, Tailwind, Shadcn UI, Radix UI, jQuery

EXPERIENCE

New York Edge

Extended Day Activity Instructor-STEM specialist (Part time)

March 2024-February 2025

- Develop and deliver engaging computer science lessons to grade school children, covering topics like programming concepts (conditional statements, loops, DRY) and cybersecurity (antivirus, malware, social engineering).

PROJECTS

Small Business E-commerce Platform – Web Application

Full Stack Developer (Solo Project)

May 2025-Ongoing

- Designing and implementing a full-stack e-commerce application using Next.js 15, React/TypeScript, PostgreSQL, and Supabase, with a focus on server components, client/server boundaries, and scalable architecture.
- Built a normalized PostgreSQL schema featuring multi-level product categories, JSONB metadata, and efficient indexing strategies.
- Implemented secure CRUD operations using Postgres RLS through Supabase, custom policies, RPC functions and SQL / PL/pgSQL logic for cart synchronization and product retrieval.
- Developed modular frontend components, including product search, category displays, authentication-aware UI states, and reusable context providers (AuthContext, CartContext).
- Integrated Supabase Auth with SSR cookie handling and session retrieval using createServerClient, supporting protected routes and server-side data loading.
- Actively improving the system through type-safe data fetching, optimized queries, and exploration of cursor-based pagination strategies in Postgres, with the goal of beta launching in the next few months

Task Manager – Web Application

Full Stack Developer (Solo Project)

June 2023-July 2025

- Devised UI layout for app and implemented with Tailwind and Shadcn UI.
- Connected backend server with SQLite as an alternative solution to MongoDB after change in pricing charges.
- Used an ORM, Prisma to handle interaction with the database.
- Completed backend after having grown in terms of software development skills and understanding of computer systems and networking concepts.

Visa Recommendation App - Mobile Application

Backend Developer (School Project)

January 2024-May 2024

- Developed a Spring Boot API for a visa recommendation system with RESTful services for eligibility-based suggestions.
- Used Spring Data JPA with MySQL, optimizing schema design for scalability and query efficiency.
- Managed a MySQL database with an initial dataset of 11 visa types, architected for future scalability to accommodate additional visa categories and increased user data.

Product Lookup Site - Web Application

Backend Developer (School Project)

November 2023-December 2023

- Implemented a Node.js-based product lookup system with EJS and MongoDB, handling product details, pricing, and order statistics.
- Developed a prototyped system with a total of 23 model products, with two related collections collecting sales and delivery information alongside 5 model users.
- Implemented functional forms for updating data and a simple server-side routing system.

WeatherApp - Web Application

Full Stack Developer (Solo Project)

March 2023-September 2023

- Built a full-stack weather app using React (TypeScript) and Node.js with real-time API integration.
- Owned the entire application's design and implementation, including the user interface and back-end functionality.
- Developed a Node.js server for API requests, handling data parsing and error handling.

OTHER SKILLS

Language: Proficient in Arabic (Speaking, Listening, Reading and Writing) and Dioula/Bambara (Basic Speaking and Listening)