

# Melissa Abreu

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## Education

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### General Assembly

New York, New York

*Advance Software Engineering Immersive Program*

- Coursework: Full-Stack Development (MERN/CRUD), Advanced JavaScript (ES6+), React, Node.js, Express, PostgreSQL/MongoDB, REST APIs, Test-Driven Development (TDD), and Agile Methodology

### Queens College, City University of New York

New York, New York

*Bachelor of Science in Computer Science — Minor in Economics*

- Research: Analyzed OECD data for 37 countries to determine the relationship between Labor Productivity & Utilization.
- Coursework: Intro to Programming, Data Structures, Computer Architecture, Price Theory, Econometrics, Business & Economics, Statistics.
- Clubs: Member of Alliance of Latin American Students (ALAS).

### Borough of Manhattan Community College

New York, New York

*Associate of Arts - Liberal Arts*

- Clubs: Member of Freshman Learning Academy (FLA).

## Experience

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### Felipe Tax Corporation

New York, NY

*Tax Preparer*

*Jan. 2022 – Apr. 2025*

- Automated client filing workflows using VBA/Excel macros, reducing average the firms client base turnaround time by 36%.
- Analyzed large financial datasets & records for 300+ individual & business tax returns annually ensuring 100% compliance.
- Provided data-driven financial advice, optimizing tax liabilities and maximizing return value based on detailed analytics.
- Trained >5 staff members on digital filing systems with improved documentation processes, increasing team efficiency.

### Walmart E-Commerce

Pedricktown, NJ

*Logistics Coordinator*

*Aug. 2020 – Dec. 2021*

- Managed and queried high-volume SQL and NOVA databases containing logistics data for a national distribution center.
- Engineered a dashboard to monitor & categorize 50/weekly incoming tickets, reducing critical system response time by 25%.
- Collaborated directly with senior backend engineers on 3 major process automation projects to troubleshoot system errors and streamline large-scale package flow.

## Projects

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### Cook Up | *React, Node.js, Express, and MongoDB*

- Built a full-stack application with React, Node.js, Express, and MongoDB, designed to solve the common user problem of meal planning with available ingredients.
- Integrated the Google Gemini API to provide dynamic, AI-powered recipe generation, handling complex asynchronous requests for content creation.
- Implemented a user-centric design using Tailwind CSS & the MVC architecture that resulted in a fully responsive interface.
- Managed the full CRUD cycle for recipe saving, editing, and deletion, ensuring data persistence and a good user experience.

### Tellin' | *Python, Next.js, PostgreSQL, Redis, S3*

- Built a traditional full-stack CRUD application using vanilla JavaScript, EJS templates, CSS, and Express to serve user-generated content (photographs, poems, short stories).
- Executed complete backend logic and routing using Express, managing data storage & retrieval via PostgreSQL / MongoDB.
- Demonstrated foundational competency in full-stack development without relying on modern frameworks.

### Concentration | *Python, FastAPI, PostgreSQL, Redis, OpenSearch, RAG*

- Created a classic memory matching game developed with JavaScript and CSS, focusing on clean code and DOM manipulation logic.
- Implemented time complexity considerations and strict game logic to track up to 16 distinct image pairs with a fixed attempt limit (4 tries), ensuring playability and challenge.

### Echoes | *JavaScript, EJS templates, CSS, and Express*

- Built a traditional full-stack CRUD application using vanilla JavaScript, EJS templates, CSS, and Express to serve user-generated content (photographs, poems, short stories).
- Executed complete backend logic and routing using Express, managing data storage and retrieval via PostgreSQL.
- Demonstrated foundational competency in full-stack development without relying on modern frameworks.

## Technical Skills

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**Languages:** JavaScript (ES6+), Python, HTML5, CSS3, SQL, Tailwind CSS

**Frameworks, Libraries & Databases:** React, Node.js, Express, Django, Bootstrap, jQuery, PostgreSQL, MongoDB

**Tools & Platforms:** Git/GitHub, VS Code, Heroku, Render, Netlify, Postman, R, QuickBooks, Adobe, Drake

**Coursework/Concepts:** REST APIs, Agile, MVC Architecture, Responsive Design, Test-Driven Development (TDD)