

## JASON MONTTOYA

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### Education

#### COLUMBIA UNIVERSITY

New York, NY

A.B. degree in Computer Science with a minor in Hispanic Studies

May 2025

Relevant Coursework: Advanced Software Engineering, Design for Generative AI, UI Design, Intro to Databases, Data Structures and Algorithms, Advanced Programming in C, Discrete Mathematics, Computer Science Theory, Calculus III.

### Professional Experience

#### NATIONAL GRID

New York, NY

##### Software Engineer Intern

June - August 2024

- Achieved an increase in ticket handling by more than 50%, scaling from 1 ticket per week to managing up to 5 frontend and backend tickets, driving faster issue resolution and team productivity.
- Contributed to both UI design and backend development using TypeScript and Node.js, with responsibilities including bug correction via SonarQube, addressing cognitive complexity, and ensuring code quality through Git version control, unit testing, and merging.
- Played a key role in Agile workflows, regularly tackling backlog items beyond assigned tasks, provided regular updates on Jira, actively participated in stand-ups, and demonstrated completed work effectively during demo days.

#### CITY UNIVERSITY OF NEW YORK

New York, NY

##### Technology College Assistant

July 2022 - Present

- Optimized IT infrastructure by configuring and troubleshooting workstations for 3+ departments, ensuring smooth technical operations for staff and events across these departments.
- Addressed major IT issues with upper-level management ensuring smooth workflow.

##### Information Technology Intern

May 2022 - July 2022

- Upgraded over 100+ Windows Systems, improving system performance and overall user experience.
- Managed account claims via phone and in-person; expedited equipment loaning, and facilitated ID distribution by managing database entries.

### Projects

#### CRUD Application with Flask for Hispanic Music Database

HTML, CSS, JavaScript, Flask, Bootstrap

- Engineered a web app with both frontend and backend capabilities, including, add, edit, search functionalities.
- Collaborated with classmates in code reviews, applying Agile methodologies to refine the application's functionality based on feedback, improving the overall code quality and user experience.

#### Full-Stack Web App for Learning to Detect Hispanic Accents

HTML, CSS, Javascript, JQuery, Flask, Bootstrap

- Created an interactive application for learning to detect Hispanic accents; utilized Flask for backend processing and Bootstrap for responsive design, resulting in increased user engagement.
- Collaborated with individuals from Latin America to curate authentic audio samples, ensuring cultural relevance and accuracy.

### Technical Skills

**Programming Languages:** Java, C, Python.

**Web Dev:** HTML, CSS, JavaScript, JQuery, Bootstrap, Flask, React.

**Developer Tools:** Git, IntelliJ, Eclipse, Visual Studio Code, DataGrip, Bash, SonarQube, Postman, Jira, XCode.

**Database and Data Science:** MySQL, Anaconda, Jupyter Notebook, Postico.