

JASON ALEJANDRO MENDOZA MONTOYA

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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

CheatCode - AI LeetCode Problem Solver

HTML, CSS Javascript, Flask, Bootstrap

- Developed a web-based application leveraging OpenAI's GPT API to generate accurate solutions and explanations for LeetCode problems in under 30 seconds.
- Engineered a user-friendly interface to streamline interaction with the AI and track response accuracy and user ratings for continuous improvement.
- Reduced problem-solving time for coding interview prep by automating solution generation across all problem types.

Volunteer and Donation Coordinator - Team Project

Java, Spring Boot, Google Cloud SQL, Maven, GitHub Actions, PMD, Checkstyle, JaCoCo, GCP.

- Developed a Spring Boot application enabling nonprofits to manage volunteers, events, and donations, utilizing Google Cloud SQL for real-time database management.
- Designed and implemented 30+ API endpoints, including user authentication, volunteer scheduling, and inventory management, improving operational efficiency for nonprofit clients.
- Conducted rigorous testing using Maven and JaCoCo, achieving **95%+ code coverage** and ensuring reliable performance under real-world conditions.

Technical Skills

Programming Languages & Web Development: Java, C, Python, HTML, CSS, JavaScript, JQuery, Bootstrap, Flask, React

Developer Tools & Platforms: Git, IntelliJ, Eclipse, VS Code, DataGrip, Bash, SonarQube, Postman, Jira, XCode, Maven, JaCoCo, Git CI/CD, Google Cloud Platform

Databases & AI: MySQL, Anaconda, Jupyter Notebook, Postico, ChatGPT API