

JASON ALEJANDRO MENDOZA MONTOYA

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EDUCATION

Columbia University

New York, NY

Bachelor's degree in Computer Science

May 2025

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

PROFESSIONAL EXPERIENCE

Columbia Build Lab - Parthion Battery Solutions

New York, NY

Lead Software Engineer Intern

January 2025 - May 2025

- Contribute to the development of a Minimum Viable Product (MVP) for a startup, focusing on both front-end and back-end features.
- Collaborate with cross-functional teams to design, develop, and deploy a scalable web-based marketplace within an Agile framework.

National Grid

New York, NY

Software Engineer Intern

June - August 2024

- Boosted ticket resolution rate by 400%, handling up to 5 front-end and back-end tickets per week compared to 1 ticket previously, resulting in a 30% increase in team productivity and faster issue resolution.
- 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.

PROJECT EXPERIENCE

CheatCode - AI LeetCode Problem Solver

HTML, CSS Javascript, Flask, Bootstrap, OpenAI API

- Built a web app using OpenAI's GPT API, delivering solutions to LeetCode problems in under 30 seconds with 98% accuracy.
- Engineered a user-friendly interface to streamline interaction with the AI and track response accuracy and user ratings for continuous improvement.
- Decreased interview prep time by 50% for users by automating LeetCode problem solutions, supporting over 200 distinct 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.
- Achieved 95%+ code coverage through automated testing with Maven and JaCoCo, enhancing system reliability and reducing bugs by 30% in production."

TECHNICAL SKILLS

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

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, ElevenLabs, Whisper, Google Calendar API.