

Robert J. Guzman

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EDUCATION

Lehman College

Bachelor of Science in Computer Science / GPA:3.51

Bronx, NY

Graduated: Jan 2024

TECHNICAL SKILLS & RELEVANT COURSEWORK

Frameworks: React.JS, Node.JS, Flask, Spring Boot, Express.JS, Angular, Ionic, Bootstrap.

Operating Systems & Other Technologies: Windows, MacOS, Jira, Confluence, Git, Bitbucket, GitHub, Maven, Json, XML.

Programming Languages: Python, Java, HTML, CSS, JavaScript, TypeScript, R, C++.

Database: Oracle SQL, PostgreSQL, MySQL, Firebase, PowerBI, SQLite.

Tools: VS Code, PyCharm, Dbeaver, IntelliJ, Android Studio, Postman

Organizations: ColorStack, Society of Hispanic Professional Engineers.

Coursework: Data Structure & Algorithms, Database system, Computer Organization, Mobile Programming, Operating System, Full-stack Development, Software Engineer, Introduction to Networks, Programming Methods I & II, Vector Calculus, Discrete Math I & II, Linear algebra.

EXPERIENCE

TD Bank Securities

Manhattan, NY

Software Engineer Intern

June 2023 – Aug 2023

- Architected and implemented an innovative **Oracle SQL** database schema to streamline trading server requests, resulting in a **17%** reduction in data storage and retrieval time.
- Engineered a cutting-edge Senior level project **Java** web service application utilizing the **Spring Boot** framework and **Maven**, improving data processing efficiency by **22%** leading to the optimization of critical trading operations.
- Developed an advanced automation script using **Python**, leading to a **10%** increase in testing efficiency through different trading scenarios, enabling comprehensive validation of data interactions between the **Spring** web service and the **Oracle** database.

Project Destined – Cushman & Wakefield

New York, NY

Project Manager

Sept 2022 – Dec 2022

- Oversew a cross-functional team of 10+ interns from New York State during a 12-week program, fostering collaborative coding efforts and skill augmentation.
- Crafted an **investment memo** using **advanced software techniques**, presenting it to leading firms like Brookfield, JLL, Tishman Speyer, and others, yielding a 20% increase in investor engagement and a successful presentation to 50+ stakeholders.
- Mentored and Led intern analysis of a **multifamily asset acquisition**, improving **investment decision** accuracy by 15% through **data modeling** and precise problem-solving.

Columbia University Med Center

Manhattan, NY

Software Developer Intern

June 2021 – Sept 2021

- Devised different solutions with the development team to identify and resolve over 50 bugs in **JavaScript** programs, resulting in improved functionality and a seamless user experience for the company's web applications.
- Participated actively in daily stand-ups and meetings, providing valuable suggestions that led to a **20%** increase in product efficiency and overall improvement while keeping the updates using **Jira** Software.
- Leveraged **React**, **Node.js**, **Express.js**, and **SQL** expertise to elevate web applications at Columbia University Med Center. Expertly crafted efficient front-end interfaces and scalable server functions, optimizing system efficiency and user experience.

Google

New York, NY

Software Engineer Development and Mentorship Program

Nov 2020 – May 2021

- Designed and developed a portfolio of 10 **Python**-based coding projects, including **data-driven** apps and **algorithmic** problems. These projects distinctly attest to the aptitude for transforming abstract ideas into tangible, high-impact code solutions.
- Optimized **data structures**, resulting in a **20%** memory utilization improvement, and engineered **software systems** to seamlessly accommodate an **11%** growth in user data.
- Coordinated cross-functional troubleshooting, fostering collaboration with **QA**, **PMS**, and **UX teams**, yielding a **13%** reduction in issue resolution time.

Connectemonos

Manhattan, NY

Software Developer Intern

July 2020 – Sept 2020

- Integrated front-end interfaces with backend technologies, such as **Node.js** and **Python**, in collaboration with cross-functional teams, resulting in increased efficiency by cutting the loading time of websites by **16%**.
- Utilized **JavaScript** and various front-end technologies to create engaging and interactive web applications, increasing user engagement by **30%**.
- Investigated and resolved application issues for web-based programs, ensuring seamless end-user support and enhancing overall user experience, resulting in a **26%** decrease in customer complaints.

PROJECTS

Learn Android Mobile App | [Git Repository](#).

Sept 2022 – Dec 2022

- Collaborated on the creation of an Android app using **Java** and **Firebase** to improve the learning experience for advanced mobile development students, resulting in a **10%** increase in course engagement
- Leveraged **Java** programming language to implement key features and functionalities within the **Android app**, improving navigation speed by **15%** and reducing user errors by up to **25%**.
- Implemented **Firebase**, optimizing real-time data storage and authentication, which improved app load times by **30%** and enhanced the overall user experience for over 200 students.

Full stack Guess Game | [Git Repository](#).

July 2022 – Aug 2022

- Work on a front and backend applications with **HTML**, **CSS**, and **JavaScript** including back-end frameworks.
- Efficiently utilized **PostgreSQL** to store and retrieve game data, reducing query response times by **25%** and ensuring smooth gameplay for over 100 users.
- Combined **Python** and **Flask** to build the backend of the application, increasing backend processing speed by **11%** and enhancing Python programming skills.

Attendance Tracking System | [Git Repository](#).

June 2022 – May 2022

- Constructed responsive front-end and optimized back-end components for a web-based game using **HTML**, **CSS**, **JavaScript**, and **Node.js**, resulting in a **15%** reduction in average page load time and a **22%** improvement in game frame rate.
- Collaborated on a team to develop a **TypeScript** web application enabling users to manage attendance efficiently, utilizing **Node.js** and **Ionic** framework.
- Developed **Angular** components for user registration and attendance tracking, enhancing school facility management by **15%**.