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.
Other Technologies: Windows, MacOS, Jira, Confluence, Git, Bitbucket, GitHub, Maven, Json, XML.
Cloud: AWS Bedrock, Lambda, EC2, S3, DynamoDB, SQS.
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(SHPE).
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

AIG
Software Engineer (TAP)
Jersey City, NJ
July 2024 - Present
- Designed and implemented a Flask application utilizing AWS **Bedrock** with Claude 3.5 LLM to summarize PDF, DOCX, TXT, Java, and HTML files, streamlining document review processes by **4%** and generating downloadable Word files for user accessibility.
- Designed and implemented a serverless backend using AWS **Lambda**, seamlessly integrating with a Large Language Model (LLM) to automate the conversion of **IBM UDB** queries to **PostgreSQL**, ensuring high performance and scalability.
- Automated the retrieval of **YAML** files across organizational GitHub repositories by crafting a **Python** script using the GitHub API, improving file management efficiency by **5%** while maintaining directory structure integrity.

TD Bank Securities
Software Engineer Intern
Manhattan, NY
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
Project Manager
New York, NY
Sept 2022 – Dec 2022
- Oversaw 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
Software Developer Intern
Manhattan, NY
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
Software Engineer Development and Mentorship Program
New York, NY
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
Software Developer Intern
Manhattan, NY
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%**.

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.