

Robert Guzman

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EDUCATION

Lehman College

Bachelor of Science in Computer Science (Cum Laude) | GPA: 3.5/4.0

Dec. 2023

Bronx, NY

SKILLS & TECHNOLOGIES

Languages: Python, Java, JavaScript/TypeScript, C++, HTML/CSS

Frameworks & Libraries: React, Angular, Node.js, Express.js, Flask, Ionic, Bootstrap, Spring boot

Build & Dev Tools: Gradle, Maven, Git (GitHub, Bitbucket), Jira, Confluence, Postman

Cloud & Infrastructure: AWS (Bedrock, Lambda, EC2, S3, RDS, DynamoDB, SQS)

Databases & Analytics: PostgreSQL, Oracle SQL, MySQL, Firebase, Power BI

Coursework: Data Structures, Database Systems, Computer Organization, Mobile Development, Operating Systems, Full-Stack Development, Networks

WORK EXPERIENCE

American International Group (AIG) | Technology Analyst Program

Jul. 2024 - Present

Software Engineer, Information Security Office | Apr. 2025 – Present

Jersey City, NJ

- Automated manual security assessments across 50+ reviews with BlinkOps security-as-code in Spring Boot and Gradle microservices under SLAs, slashing vulnerabilities 30% and manual testing 4%.
- Reengineered Java Spring Boot and Gradle microservices, rewrote PostgreSQL queries to onboard SSA compliance fields for 1,000+ audits-mitigating schema drift, boosting data accuracy 12% and throughput 32%.
- Streamlined the Angular and TypeScript UI—reactive forms and lazy loading; reduced load time by 10%, form-completion time by 5%, and errors by 15% for 500+ compliance analysts.

Software Engineer, GenAI | Jul. 2024 – Apr. 2025

- Drove a serverless GenAI migration workflow using API Gateway, Lambda, SQS, DynamoDB and a Bedrock-hosted Claude LLM with exponential backoff to translate 20K+ IBM UDB queries cutting cycle time 13%, slashing manual effort by 5%.
- Rearchitected Underwriter Assist's Angular, TypeScript UI and Python, AWS Bedrock microservices via Palantir Foundry with underwriting analysts, ensuring <500ms responses, supporting 500+ analyses, and accelerating premium-setting by 7%.
- Pioneered Bedrock LLM-based Code Explainability workflow with dynamic context resolver to auto-generate line-by-line docs for 250+ Python/JS/TS files, enabling platform/security teams to onboard 18% faster.

TD Securities (TD Bank)

Jun. 2023 - Aug. 2023

Software Engineer Intern

Manhattan, NY

- 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 high-performance Java web service with Spring Boot and Maven, improving data processing efficiency by 22% and optimizing trading operations for greater reliability and speed.
- Developed an automation script using Python, leading to a 10% increase in testing efficiency through different trading scenarios, enabling validation of data interactions between the Spring web service and the Oracle database.

Project Destined – Cushman & Wakefield

Sep. 2022 - Dec. 2022

Project Manager

New York, NY

- 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 problem-solving.

Columbia University Med Center

Jun. 2021 - Sep. 2021

Software Developer Intern

Manhattan, NY

- 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 an 8% 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

Nov. 2020 - May 2021

Software Engineer Development and Mentorship Program

New York, NY

- 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 13% reduction in issue resolution time.

PROJECTS

Learn Android Mobile App | Java, Android SDK, XML, Firebase Realtime Database

Sep. 2022 - Dec. 2022

- Enhanced application performance by optimizing code and refining data management strategies, leading to a smoother user experience and reduced crash rates.
- 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 intuitive UI/UX enhancements using XML layouts and Android SDK, increasing user engagement and session duration by 20%.

Attendance Tracking System | Ionic, Firebase, HTML, CSS, TypeScript

Jan. 2022 - May. 2022

- Constructed responsive front-end and optimized back-end components for a web-based system using HTML, CSS and TypeScript resulting in a 10% reduction in average page load time and a 22% improvement in game frame rate.
- Performed regular testing and debugging to ensure the web app's performance and reliability met user expectations, leading to increased user satisfaction.
- Integrated real-time attendance monitoring using Firebase Realtime Database listeners, enabling instant updates and improving system accuracy by 18%.