

Luis Gutierrez

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EDUCATION

RUTGERS UNIVERSITY

New Brunswick, NJ | Sept 2022 - May 2025

- **B.A. Computer Science**
- **Coursework:** Algorithms in Society, Computer Architecture, Data Management for Data Science, Data Structures and Algorithms, Design & Analysis of Algorithms

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- AWS Certified Solutions Architect - Associate

WORK EXPERIENCE

Amazon Web Services, Cloud Support Associate Intern

Remote | July 2023 - Dec 2023

- Developed a data analysis pipeline using **AWS services** (Glue, Athena, QuickSight, S3) to track and analyze Electric Vehicle (EV) data, enabling efficient data processing and visualization.
- Developed a three-tier **web architecture** in AWS, integrating a public-facing Application Load Balancer, Nginx web servers, and internal load balancers to manage traffic and API routing for a **React.js** and **Node.js** application stack.

Bechtel Corporation, Automation Engineer Intern

Richland, WA | June 2023 - Aug 2023

- Developed and implemented automation solutions for processes utilizing **SQL** and **C#**, effectively managing **165,000 feet** of piping systems, which resulted in a **20%** efficiency improvement from the previous process.
- Spearheaded the conversion of SQL code to C# for daily task monitoring, enhancing system efficiency and accuracy.
- Conducted extensive system and data analysis with **Python**, providing valuable insights for automation strategy improvements, leading to a **5%** increase in overall system performance.

Netby IT Consulting, Software Engineer Intern

Quito, Ecuador | May 2022 - Aug 2022

- Developed an internal web application for processing messages that failed to be sent between distributed system components, in order to reduce the time taken to resolve customers' incorrect data tickets by **90%**.
- Increased integration testing coverage by **6%** for an existing internal application.
- Technologies used: Java, Spring Boot, React, MongoDB, AWS.

TECHNICAL PROJECTS

Dorm Room Assignment System, CS345: Algorithms in Society

Sept 2023

- Led a team of 5 students to develop an efficient room assignment **algorithm** for student dorm allocation considering constraints and preferences, utilizing **Python** for seamless policy implementation and **data analysis**.
- Engineered fair and justified assignment policies addressing accessibility, affordability, and preference alignment, effectively balancing student needs and system limitations.

WhisperWrite, Technologies: Typescript, Next.js, React, Python, MongoDB

July 2023

- Engineered a note-taking app and website with speech-to-text capabilities for efficient lecture and meeting transcription.
- Led the design of **UI** and development of **RESTful APIs**, facilitating seamless note retrieval and upload functionalities.
- Successfully sold the project to SageTech as a valuable tool for meeting transcription and note-taking.

LEADERSHIP EXPERIENCE

Society of Hispanic Professional Engineers NJ, NJ Sub-RSR

July 2022 - May 2024

- Initiated collaboration initiatives among SHPE chapters across New Jersey, positively impacting over **500** members.
- Facilitated communication between **6** local chapters and the national organization, aligning with STEM outreach goals.

SKILLS

- **Programming Languages:** C, C#, Java, JavaScript, Python, SQL
- **Technologies & Tools:** Angular, Django, Flask, Node.js, React, NumPy, Pandas, Tkinter, Git, GitHub, JupyterLab, Linux, Oracle
- **AWS Technologies:** EC2, S3, Lambda, Glue, Athena, QuickSight, Aurora MySQL, RDS