Renzo Espinoza

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Personal Website : https://renzoespinoza10.github.io/Portfolio-Website/

EDUCATION

Rice University *Houston, TX*
Bachelor's of Arts in Computer Science 3.5 GPA **Graduating**: *May,2024*
Awards : Questbridge Scholarship Recipient
Affiliations: Society of Hispanic Professional Engineers (SHPE)

WORK EXPERIENCE

Software Engineer Intern *May 2023 – August 2023*
SALESFORCE – SAN FRANCISCO

- Building a serverless development auditing engine using **ReactJS** and **AWS Lambdas** to proactively monitor and identify developer integration violations at an organization-wide level.
- Utilizing **AWS Amplify** to efficiently retrieve and store employee data in **DynamoDB** through multiple APIs, empowering users with an intuitive overview of violations within their organization and enabling them to take prompt action.
- Enhancing the control monitors service using **GoLang,** enabling real-time surveillance of the Salesforce Team API to incorporate additional controls and strengthen the accuracy of violation detection measures.

Software Engineer Intern *May 2022 – August 2022*
DELL-TECHNOLOGIES – AUSTIN

- Collaborated with teammates to create a **microservice**, using **Java Spring Boot** and **Angular**, to define a single entry point to search and discover account & asset data as part of a dashboard to be used by 100,000+ internal employees.
- Developed asynchronous Excel report download service using **PostgreSQL** and **Redis** to **cache** up to 100,000 rows of data.
- Designed **REST API** that calls adjacent microservice to query account information and populate the sheets using **Apache POI**.

Full Stack Software Engineer Intern *Jan 2022 - May 2022*
RENZOE BOX – AUSTIN

- Built web foundation matching app using **ReactJS** through facial landmark detection AI and relational database of products to correctly match user skin tone to foundation color values with **92% accuracy.**
- **Constructed REST API** that served **client** facial coordinates through JavaScript to supply **server-side** selfie validation algorithms in **Django**.
- Designed a pipeline to **optimize** sending a 'valid' selfie to an **AWS** S3 bucket for color correction and foundation matching from **8 to 2 seconds speed.**

Software Engineer Research Assistant (Aiden Lab) *Nov 2021 – June 2022*
BAYLOR COLLEGE OF MEDICINE – HOUSTON

- **Optimized** Straw, a library that streams contact mappings of genome structures, to analyze terabyte-scale contact maps as **<1 kilobyte** Jupyter notebooks.
- Modified genome browsers to implement Straw for contact matrix streaming, resulting in **10x speedup.**
- Used **PyBind11** to process normalization vectors as **NumPy arrays** so that they're persistent in memory, scalable, and easily extractable for data modeling, **reducing computation time** from several hours to less than 3 minutes.

SKILLS

Programming Languages: Python, Java, Javascript, C, GoLang, SQL, HTML5, CSS
Frameworks + : React, AngularJS, NodeJS & Express, Django, Spring Boot, AWS, Heroku, Docker, Unix