

LILY REN

229-589-0841 | lilyyren@gmail.com | linkedin.com/in/lily-ren-/ | github.com/lilyyren

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, Georgia

Bachelor of Science in Computer Science

August 2022 – December 2025

Relevant Coursework: Introduction to Object Oriented Programming, Linear Algebra, Data Structures and Algorithms, Introduction to Discrete Math, Computer Organization and Programming, Design and Algorithms

TECHNICAL SKILLS

Programming Languages: Python, Java, C, HTML/CSS, Javascript, MATLAB, PostgreSQL, Bash Script

Technologies/Tools: Linux/Unix, GIT, Docker, Microsoft Office, Canva, QGIS, Fulcrum

Languages: English (Native), Mandarin (Native), Fuzhounese Dialect (Native), Spanish (Basic)

EXPERIENCE

McLean Engineering

Moultrie, GA

Data Engineering Intern

December 2023 – January 2024

- Developed an automated PostgreSQL solution to efficiently query customer data from company servers, reducing query time by 40% and accelerating the creation of Fulcrum applications by 30%

Data Engineering Intern

May 2023 – August 2023

- Enhanced and edited conductor maps for 10+ projects with QGIS and PostgreSQL, ensuring accuracy and alignment with customer requirements by reducing errors in the mapping data and expediting field data collection by approximately 2 hours
- Conducted thorough quality assurance and quality control inspections for 10+ projects, identifying and resolving discrepancies with PostgreSQL resulting in a 100% reduction in project error
- Developed customized apps in Fulcrum by obtaining customer specific data with PostgreSQL on a Linux machine for individual substations within each project, optimizing data collection and management

PROJECTS

GreenPlate: A Sustainable Food Management System

January 2024 – May 2024

Java, Android Studio, Firebase, XML

- Collaboratively designed and developed a mobile app in Android Studio focused on reducing food waste and promoting sustainable eating habits through intuitive interfaces for meal logging, ingredient tracking, and shopping list generation
- Implemented Firebase for secure user authentication and real-time database management, enabling personalized dietary goals and efficient meal and pantry tracking
- Created an extensive recipe and pantry database with over 100+ user-generated recipes and ingredients, featuring automated pantry inventory updates and shopping list generation.

Fitness Tracker

January 2024

Java, Android Studio, XML

- Integrated Android Intent functionality to facilitate seamless transitions across more than 10 distinct activities in a wellness application, enhancing user navigation and reducing average task completion time by 20%
- Implemented a data update mechanism within the WellnessViewModel, ensuring real-time synchronization and accurate display of user wellness data
- Designed and programmed UI elements using XML in Android Studio, including the creation and binding of a save button in WellnessActivity, to improve user interaction and functionality

CERTIFICATIONS/LEADERSHIP & ACTIVITIES

- Codepath x AmazonNext Intermediate Technical Interview Prep Certificate
- Member of Girls Who Code and GT WebDev