AyaanAli Lakhani

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Summary

Dedicated computer science student with a strong foundation in software development and a passion for cybersecurity. Seeking an internship opportunity to gain hands-on technical experience, learn from industry professionals, and contribute towards safeguarding digital assets.

Education

University of Houston | Houston, TX
B.S. Computer Science | 12/2025

Member of Cougar CS Club
Relevant Courses: Cybersecurity (COSC3371), Introduction to Computer Networks (COSC4377), Fundamentals of Operating Systems (COSC3360), Computer Organization and Architecture (COSC2425), and Database Systems (COSC3380)

Wharton County Junior College | Wharton, TX
A.A. Computer Science General Studies | 12/2023

Technical Skills

Java, JavaScript, C, C++, Python, SQL, Shell Scripting, HTML, CSS, Flask, Azure, GitHub

Personal Projects

Public Key Cryptography

Developed a UDP-based server acting as a database for storing and retrieving user IDs and their associated public keys and a client program to interact with the UDP server using C++.
Prompted for an input file containing user data and a specified port, loaded data into memory, and bound to the port to handle incoming client requests.
Handled client requests by searching the database for user IDs and responding with corresponding public keys, or an error message if not found.
Built expertise in UDP networking, socket programming, and server-client communication.

Cell Company Data Management Web App

Developed a web application to efficiently manage customer data and operations for a mock cell phone company using SQL and JavaScript
User-friendly interface for creating, populating, and deleting database tables (customer records, phone plans, payment details).
Displayed detailed customer profiles, billing summaries, total call durations, and payment histories, offering comprehensive data insights.
Supported bill payments, plan changes, and real-time transaction handling to streamline operational processes.
Generated billing summaries and improved operational efficiency, enhancing customer experience.

Certifications & Trainings

AWS Certified Cloud Practitioner (currently in progress), CompTIA Security + (currently in progress)