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), Fundementals 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

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)