SUMAIR SOOMRO

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LinkedIn ☐ Github

Education

University of Massachusetts Amherst

Expected Graduation, May 2025

Bachelor of Science in Computer Science

• Relevant Coursework: Data structures and algorithms (JAVA), Programming methodology (TypeScript/JavaScript), Computer Systems (C), Computer Crime law

Experience

New Student Orientations, University of Massachusetts Amherst

May 2023 - August 2023

Orientations and Transitions Leader

Amherst, Massachusetts

• Led orientation for 600+ students, fostering connections and successful transitions through mentorship and event coordination.

Residential Life, University of Massachusetts Amherst,

August 2023 - Present

Residential Assistant

Amherst, Massachusetts

• Fostered a cohesive community of 500+ residents and collaborated with 25 RAs, managing emergencies and resources effectively.

Projects

DailyThoughts: A Django-based Journaling Web Application | Python, Django, JavaScript, HTML, CSS, PostgreSQL, AWS

- Developed 'DailyThoughts', a dynamic journaling web application using Django, attracting over 20 active users with the first month of launch.
- Integrated PostgreSQL and AWS for robust data handling, enabling the capacity to efficiently manage over 10,000 journal entries and support up to 5TB of user data, enhancing storage performance and data security.
- Implemented user authentication and profile management, leading to an increase in user engagement and personalized experiences..

E-commerce Prototype | *JavaScript*, HTML, CSS

- Engineered a dynamic e-commerce website prototype, leveraging HTML, CSS, and JavaScript, to create an intuitive and responsive user interface.
- Implemented advanced features like a shopping cart system, product display, and user interaction elements, enhancing user experience and engagement.
- Utilized local storage for cart state management, ensuring a seamless shopping experience

Cryptobot | C

- Engineered 'Cryptobot', a sophisticated communication and decryption system in C, handling secure data exchange and cryptographic challenges.
- Implemented socket programming for efficient client-server communication and developed an automated decryption algorithm, significantly enhancing data security and high-volume network traffic handling.
- Managed complex data structures and memory allocation for optimized system performance

Budget App | *JavaScript*, HTML, CSS

- Engineered a JavaScript-based Personal Budget Tracker, significantly improving financial management and tracking, resulting in a 25% reduction in personal and peer group spending.
- Integrated user-friendly budget and expense forms, enhancing the accuracy and consistency of financial data entry.

Customer Relationship Management App (ongoing) | Python, Django, MySQL

- Leading the development of a CRM application using Python and Django, focusing on user management and data processing efficiency.
- Integrating MySQL to enhance data handling, with a commitment to creating a secure, scalable, and user-friendly platform.

Technical Skills

Programming languages: Java, C, JavaScript, TypeScript, Python, MySQL, PostgreSQL, LaTeX, HTML, CSS

Technologies: React, Node. js, Django, AWS Languages: English, Hindi, Urdu, Sindhi