Muhammad "Asad" Imran

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Education

University of California, San Diego (*September 2019 - June 2023*)   *La Jolla, CA*

Bachelor's of Science in Computer Science and Engineering (GPA: 3.53)

- Relevant Coursework: Data Structures and Algorithms, Advanced Data Structures, Object Oriented Design, Computer Organization, Systems Programming, Theory of Computability, Software Tools & Techniques, Calculus, Discrete Mathematics
- Fall 2019 Revelle College Provost Honors
- Extracurriuclar: Muslim Student Association, Pakistani Student Association

Dana Hills High School (*August 2015 - June 2019*)   *Dana Point, CA*

High School Diploma (GPA: 4.42 weighted, 3.911 non-weighted)

- CA Golden Seal Merit Diploma
- AP Scholar with Distinction
- Assistance in Migration, Vice President

Relevant Skills

- Proficient in utilizing: Java, C, C++, Python, ARMv6, MATLAB, GDB, macOS
- Proficient understanding of data structures such as: stacks, queues, hash-tables, linked lists, trees, heaps, etc
- Proficient understanding of sorting algorithms, pointers, runtime analysis, dynamic memory allocation, and abstraction
- Fluent in: English (native), Urdu

Relevant Projects

Data Compression: huffman coding (*May 2021*)

- Implemented a tool to compress and uncompress files using Huffman coding.
- The compression program is given a file and compresses the file to prevent wasted storage.
- The uncompression program reads in the compressed file and restores it to its original state
- Showcases my understanding of the huffman algorithm, data structures, dynamic memory allocation, and standard I/O

Domain Name System Blocklist (*November 2020*)

- Implemented a hash-table based memory database using singly linked lists for collision resolution using
- The program is fed in a database of blocked domains and checks to see if user input is a blocked domain, outputting result if domain is blocked or not
- Showcases my understanding of data structures, dynamic memory allocation, and standard I/O

Work Experience

Luna Grill (*July 2018 - October 2018*)   *Dana Point, CA*

Cashier/Bus Boy

- Learned to work effectively and communicate with a team as well as gained ample social skills, dealing with many different people on a day to day basis, and diffusing situations with disgruntled patrons
- Took orders, served patrons, cleaned tables, washed dishes

Kaiser Permanente (*September 2017 - May 2018*)   *Irvine, CA*

Intern

- Learned how to handle stressful situations in a calm manner as I worked in a hospital with patients who were sometimes very worried about their condition.
- Assisted orthopedic technicians with patients, learned to apply casts on patients, and complete daily tasks (sterilize equipment, file paperwork, etc)