

Devang Gupta

615-705-8088

kbc177@vols.utk.edu

7020 Clearview Cir Brentwood TN 37027

OBJECTIVE

Passionate and motivated Computer Science student seeking an internship position to apply my skills in software development, algorithms, and problem-solving. Eager to contribute to innovative projects and gain hands-on experience in electronic security systems and computer support, including installation, maintenance, and troubleshooting of complex systems. Enthusiastic about learning from industry professionals in a correctional facility setting and contributing to real-world security solutions.

EDUCATION

Bachelor of Science in Computer Science

Expected Graduation: May 2027

University of Knoxville, Knoxville, Tennessee

3.00 GPA

RELEVANT COURSEWORK

Computer Organization and Architecture (COA)

Studied the fundamental structure and behavior of computer systems, including processor architecture, instruction sets, memory hierarchy, input/output systems, and control unit design. Gained practical understanding of how hardware and software interact to execute programs efficiently.

Data Structure

Explored core data structures such as arrays, linked lists, stacks, queues, trees, heaps, graphs, and hash tables. Focused on their implementation, efficiency, and real-world applications in problem-solving and algorithm development.

Algorithm

Developed a strong foundation in algorithm design and analysis, including sorting, searching, recursion, dynamic programming, greedy algorithms, and graph algorithms. Emphasized time and space complexity optimization for efficient problem-solving.

Discrete Structure

Studied foundational mathematical concepts used in computer science, including logic, set theory, relations, functions, combinatorics, graph theory, and Boolean algebra. Applied these concepts to analyze algorithms, model computational problems, and understand theoretical underpinnings of programming.

Java Programming

Proficient in object-oriented programming using Java, with hands-on experience in building applications involving classes, inheritance, polymorphism, exception handling, file I/O, collections framework, and multithreading. Familiar with GUI development using Swing and basic JDBC for database connectivity.

C++ Programming

Skilled in object-oriented programming with C++, including concepts like classes, inheritance, polymorphism, operator overloading, templates, and exception handling. Experienced in implementing data structures and algorithms for efficient problem-solving and performance optimization.

Linux

Familiar with Linux operating system fundamentals, including command-line interface (CLI), file system navigation, process management, shell scripting, and basic system administration tasks.

Git & Version Control

Experienced with Git for version control, including repository management, branching, merging, and collaboration using platforms like GitHub. Skilled in tracking changes and maintaining code integrity in team projects.

PROJECT

BMP Steganography

Developed a steganography tool to hide and retrieve secret messages within BMP image files using Least Significant Bit (LSB) manipulation. Implemented in programming language C, the project ensured data confidentiality without noticeable changes to the image. Focused on bit-level operations, file handling, and user-friendly encoding/decoding processes.

EXPERIENCE

Quick Serve Restaurant

Provided fast, friendly, and efficient customer service in a high-paced environment. Handled food preparation, order accuracy, and point-of-sale transactions. Maintained cleanliness and safety standards, collaborated with team members to ensure smooth operations, and resolved customer concerns promptly to enhance satisfaction.

EXTRACURRICULAR ACTIVITIES

Member, University Computer Science Club

Participated in hackathons, coding competitions, and technical workshops.

Organized weekly coding practice sessions and peer-learning events.

