Nimesh Shrestha

Bachelor's Computer Science student interested in Software Engineering and Machine Learning searching for a full-time job after graduation.

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EDUCATION

Virginia Tech, Blacksburg, VA — *B.S in Computer Science*

August 2020 - Spring 2023

- Expected Graduation: May 2023
- Current Senior
- Minoring in Mathematics
- 3.51 GPA

RELEVANT COURSEWORK

Intro to Computer Organization I and II, Virginia Tech

Data Structures and Algorithms, Virginia Tech

Computer Systems, Virginia Tech

Cryptography I, Virginia Tech

Intermediate Software Design, Virginia Tech

Machine Learning, Virginia Tech (in progress)

Human-Computer Interaction, Virginia Tech (in progress)

Intro to GUI Programming and Graphics, Virginia Tech (in progress)

PROJECTS

Dijkstra's SSAD Algorithm — *Java*
- Created a Java program that implements Dijkstra's algorithm using a weight adjacency list and a min-heap. The program reads through an input file that contains the graph that we're looking at and then outputs the shortest paths and lowest weights for each destination node.
- Worked with Java and Data Structures

Tower of Hanoi — *Java*
- Created a Java program that solves the Tower of Hanoi puzzle using recursion.
- Worked with Java, data structures, and recursion

Customizable Shell — *C*
- Implemented a C program that allows the user access to a customizable shell with basic linux commands and access to certain built in functions
- Shell also handles IO piping and redirection
- Worked with GitLab, C structs, and C

Personal Server — *C*
- Built a small personal web server that can serve files, stream MP4 video, and provides a simple token-based authentication API from a given base code
- From the given base code, support for HTTP 1.1, video handling, IPV6, cookie parsing, and login/logout functionality were added
- Worked with GitLab, C structs, and C
- Note: only worked with the C files (javascript files were given to us)

SKILLS

Java - Advanced

Data Structures

Microsoft Word (Certified 2016)

Microsoft Excel (Certified 2016)

Microsoft PowerPoint (Certified 2016)

Python - Intermediate

C - Advanced

Linux - Intermediate

Version Control - Intermediate

Nepali - Fluent in Speaking

Volunteer Experience

Computer Science Ambassador (2022-Present)
- Student ambassador of the Virginia Tech Computer Science Department who would represent the VT CS department at open houses and give presentations about the department to prospective students and their families

Virginia STAR (2018-2019)
- With Virginia STAR, I, along with others, would refurbish donated computers and then donate those computers to the less fortunate