

# Abhishek Bikram Thapa

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## PROFILE

Self-motivated, creative, enthusiastic, passionate undergraduate student with an eagerness to progress, learn more in the field of Computer Science with proficient skill in C, C#, Java, Python, Ruby, Clojure, and CUDA C. A meticulous eye for perfection, with a strong desire to maintain the highest possible professional and ethical standards.

## EDUCATION

**Bachelors of Science in Computer Science**, GPA 3.80/4.00

*June 2022*

Knox College, Galesburg, Illinois

Coursework: Algorithm Design and Analysis, Intro to Computing Systems, Applied Data Structures, Cryptography and Computer Security, Natural Language Processing

## WORK EXPERIENCE

**Computer Science Teaching Assistant**, Knox College, Galesburg, IL

*Sept 2020-Present*

- Independently assigned grades for coursework and tests, provided constructive feedback, recorded results, and informed the professor of the performance of students
- Tutored students individually and in small groups to solve their problems by reinforcing learning concepts

**Undergraduate Student Researcher**, Knox College, Galesburg, IL

*June 2020 - July 2020*

- Worked with a team of three people in implementing a parallelized version of an image processing box blur algorithm using CUDA C
- Increased performance of the algorithm by generating up to 75% more speedup in the parallelized version than the CPU version
- Assisted the professor in preparing lab materials for the Heterogeneous Parallel Programming class

## PROJECTS

**Russian Troll Tweet Analyzer**, Ruby- Developed a text analysis program in Ruby that analyzes the troll tweets using the most common words used by the trolls and look for patterns in the date and time published

**Minesweeper**, C# - Designed and developed a small working playable version of the minesweeper game by taking in the location of each mine as input from a text file

**Text Processing**, Clojure- Developed a program that performs some basic analysis of sentences written by some authors. The basic analysis included the percentage amount of stopwords, common pairs, common words, common n-grams

**Scotland Yard**, Java- Designed a basic version of the popular board game, Scotland Yard, by using basic maps that show the possible moves from a given location

**Plagiarism Detector**, Java- Developed a program that checks if two documents are plagiarized or not by creating and comparing the N-grams

## SKILLS

**Programming-** C, C#, Python, Java, Ruby, Clojure, R, Visual Basic.NET, CUDA C

**Languages-** English, Nepali, Hindi, Urdu

**Editing-** Adobe Photoshop, Adobe Lightroom, Adobe Premiere Pro

## PROFESSIONAL DEVELOPMENT

**Brotherhood Committee**, Tau Kappa Epsilon Delta Chapter- Explore and organize fun events within the fraternity to keep brothers engaged in activities. Such activities include but are not limited to gaming nights, cookouts, movie nights, and chapters

**Tech Tutor**, Galesburg Public Library- Provided one-on-one training and technical assistance for the customers at the library

**Volunteer**, Food Recovery Network- Maintained clean, neat, and operational facilities to recover and donate leftover food from the Hard Knox Café, Knox College