

# MAHENDRA SAPKOTA

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## EDUCATION

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**University of Massachusetts Amherst** (B.S. Computer Science) *Fall 2018 - Present*

**Courses:** Software engineering, Algorithms, Digital Forensic, Operating System, Computer Security, Computer Networking, Applied Cryptography

**Greenfield Community College** *Spring 2016 - Spring 2018*

Completed Associated degree in Computer Science

## SKILLS AND CERTIFICATIONS

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**Programming:** C, C++, Python, Java, JavaScript, HTML, CSS

**Tools/Frameworks:** Kali Linux, Metasploit, Nmap, Bash scripting, Docker, Wireshark, GNS3, Autopsy, Sleuth kit, Git, MongoDB, Agile

**Certifications:** CompTIA Security+

## PROJECTS

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### Survey Master

Worked in a scrum team of 8 to build end-to-end survey platform for our customer *Ultimate Software Group, Inc.* Used React.js for frontend, Python (flask) for backend, and MongoDB for database.

### JPEG/EXIF Investigator

Built python program to carve embedded JPEG and EXIF out of documents and parse it's location, owner, timestamps, camera-model, and other metadata of the image.

### Disk Image Data Recovery Tool

Designed fstat/istat like python program to look deep into entries, boot records, and clusters of FAT-16, FAT-32 and NTFS disk images. Which can be use to find and recover fragmented or deleted data.

### TCP/UDP remote Socket calculator

Made a remote calculator using socket.io where client can send expressions, server then calculate and send the result back to the client. Program simulates reliable TCP, reliable UDP, as well as the unreliable nature of UDP where clients expect some packet loss or timeout.

## WORK EXPERIENCE

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### University of Massachusetts Amherst

August 2014 - Present

Worked on campus as maintainer-I night shift while taking classes during the day, Here I Perform repair, fix and maintain classrooms, labs, offices and buildings. Sometimes I have to train new co-workers for various project on site.

## LEADERSHIP AND ACHIEVEMENTS

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Completed Honors associated degree in computer science Greenfield Community College.

Received international student scholastic achievement award in Greenfield Community College.

Served as active member of international student club on campus, Facilitated many student events.

Assist on opening new diversity center collaborating with professor Ruiz at GCC.