

Sagar Ghimire
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EDUCATION: Claflin University

Expected Graduation Date: July 2021

Bachelor of Computer Science (Minor in Mathematics and Cyber Security) || GPA: 3.98 / 4.0

RELEVANT COURSES:

Software Engineering (Ongoing), Calculus-III (Ongoing), Operating System (Ongoing), Data Structure and Algorithm, Computer Organization and Architecture, Calculus-I and Calculus-II, Linear Algebra, Fundamentals of Programming, and Object-Oriented Programming.

TECHNICAL AND NON-TECHNICAL SKILLS

- Programming: Python, Java, and Maple
- Tools: Django, Flask, Git/ GitHub, cPanel & WHM, and VestaCP
- Web development: Java Script, CSS, HTML5, SQL, and PostgreSQL
- Language: English, Nepali, Hindi, Urdu, and Sanskrit

PROFESSIONAL EXPERIENCES:

Creative Research Intern, Career Pathways Initiatives (CPI), UNCF

June 2019 – Present

- Researched on how Blockchain technology can be designed to perform covert communication embedding Steganographic or Cryptographic techniques.
- Examined various encryption algorithms (RSA and AES) for big data, Blockchain architecture, and various consensus mechanisms such as Proof of Work and Proof of Stake.

Undergraduate Research Intern, School of Computer Science, Claflin University

May 2019 – August 2019

- Designed an algorithm to solve single variable non-linear equation using Newton-Raphson, Secant, Bisection, and Regula-Falsi method.
- Analyzed set-up complexity of implementing the designed algorithm for different methods in Maple and Excel.

Student IT Assistant, Department of Information and Technology, Claflin University

August 2018 – April 2019

- Updated windows, installing relevant software, and running diagnostics across school's computer network.
- Assisted students in fixing internet connectivity in their device.

Undergraduate Research Intern, School of Computer Science, Claflin University

May 2018 – August 2018

- Cleaned the cancer research data obtained from gene expressed omnibuses database by using Pandas and organized it in database application.

PERSONAL PROJECT:

BookaThon (<https://github.com/ghsagar/BookaThon>)

- Developed a database application for searching, deleting, updating, and storing records of books of library using python.
- Utilized Tkinter library of python to create a Graphical User Interface and PostgreSQL database for storing data.

LEADERSHIP, CONFERENCES, AND PARTICIPATIONS:

- Vice President, National Society of Black Engineers, Local chapter, Claflin University August 2019 – Present
- Secretary, Global Student Organization, Claflin University July 2019 – Present
- Student Success Leader, Student Support Center, Claflin University May 2018 – Present
- Sophomore Edge Fellow'19, JPMorgan Chase & Co. June 10, 2019
- Participant, CUhackit19, Clemson University January 27, 2019
- Participant, Open Source 101, All things open event April 16, 2018
- Participant, HackNC, University of North Carolina at Chapel Hill November 3, 2017

HONORS AND AWARDS:

- Creative Project Award 2019, Carolina Cluster April 2019
- President's Gold Medallion, School of Natural Science and Mathematics, Claflin University March 2019
- Second Runner-up, Claflin University's Annual Business Plan Competition February 11, 2019
- Presidential Scholar, Claflin University August 2017 - Present
- Opportunity Funds Scholar, United States Education Foundation March 2016 – June 2017