

## Saurav Sapkota

Mohali, Punjab | +919115646295 | sauravsapkota650@gmail.com | <https://www.linkedin.com/in/saurav-s-0685a7234/> |

<https://github.com/saurav-3001N>

### SUMMARY

Final-year Computer Science student skilled in Java, Spring, Spring Boot, Hibernate, Python, and Linux. Strong problem-solving abilities. Seeking IT support roles to apply skills and gain practical experience

### AWARDS AND CERTIFICATIONS

**Cybersecurity Professional** | Edureka

September 2023

**Google IT Support** | Coursera

Feb 2024

**Java Programmer Intern** | Codsoft

September 2023

### TECHNICAL SKILLS

**Languages** : Java, Python, SQL (Postgres, MySQL), JavaScript

**Frameworks** : Spring, Spring Boot, Hibernate, Apache Struts, Scapy

**API and Linux Tools** : Git, Swagger, Postman, Metasploit, Nmap, Burp Suite, SQLMap, Social Engineering Toolkit, Nessus

**Cloud and Security Tools** : IBM Cloud, AWS, Azure Cloud, SQL Server, SSIS, SSRS, Linux (Configuring and Managing)

### EXPERIENCE

**Java Programmer Intern** | Codsoft

September 2023 - October

- Objective:
  - Develop a Java-based ATM interface application.
- Features:
  - User authentication via account number and PIN.
  - Transaction options: Balance Inquiry, Withdrawal, Deposit.
  - Secure transaction handling and logging.
- Technologies Used:
  - Java, Java Swing or JavaFX for GUI, JDBC for database interaction, Git for version control, Maven for dependency management.
- Structure:
  - Organized codebase with packages for entities, data access, UI, and utilities. Resources folder for configurations and tests for reliability.
- Development Process:
  - Set up Git for version control.
  - Implement backend logic and GUI.
  - Write unit tests and thoroughly test application.
  - Deploy or provide instructions for running locally.

### EDUCATION

Quest Group of Institutions

**August 2021 – Present** | B.Tech in Computer Science

### PROJECTS

**Packet Sniffer** | Python, Scapy, Wireshark, tcpdump, socket

Nov 2023

- Some well-known packet sniffing tools are Wireshark, which helps understand network data, tcpdump for basic capturing via commands, and Snort, which detects and prevents unauthorized network access.
- Skilled in monitoring and analyzing networks using tools like Microsoft Network Monitor and Zeek (formerly Bro), helping to improve security and detect possible threats.

**Image Encryption and Decryption** | Python, GUI framework

September 2023

- Developed a secure image encryption and decryption system using Python and cryptographic libraries, ensuring data confidentiality and integrity for sensitive image files
- Capable of utilizing image processing techniques and libraries, such as Pillow, to manage diverse image formats effectively and bolster security within image-dependent applications.

**Network Traffic Analyzer** | Python, scapy, pcap libraries, networking protocols (TCP/IP, UDP)

January 2024

- Developed a network traffic analyzer tool using Python and scapy libraries to monitor, capture, and analyze real-time network traffic
- Implemented packet capture and analysis functionality, enhanced with data visualization tools for presenting network traffic patterns and statistics.

### CORE SKILLS

**Operating System** : Windows, macOS, Kali Linux

**Network Protocols** : TCP/IP, FTP, SSH, DNS, DHCP, HTTP

**Pen-testing** : Nmap, Metasploit, Sqlmap,

**Virtualization Other** : VMware, Virtualbox, VPN, Git