

Shrawan Kumar

FIRST YEAR POSTGRADUATE • COMPUTER SCIENCE & ENGINEERING(CYBERSECURITY SPEC.)

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Education

2022-Present	M.Tech(Computer Science & Engg. / Cybersecurity Spec.)	IIT Kanpur	-/10
2018-2022	B.E.(Computer Science & Engg.)	SLIET University	9.44/10
2018	Senior Secondary (Class XII)	BSEB	71.40%
2016	Secondary (Class X)	BSEB	79.80%

Course Projects

Breaking the Cryptosystems | Prof. Manindra Agrawal (CS641)

Jan'22-Present

- Analyzed and decoded various cryptosystems: Substitution cipher, PlayFair cipher, and DES.
- Exploited different techniques like frequency analysis, differential cryptanalysis, and coppersmith algorithm.

Online Contracting System | Prof. Angshuman Karmakar (CS731)

Jan'22-Present

- Developed a decentralised contracting/tendering based application where companies create tenders and bidders will bid on that tender and based on certain criteria, a bidder will be selected automatically.
- Added validators criteria to maintain trust and vigilance in the system.
- Tool/Technologies used: **Solidity, Truffle, Ganache, Goerli TestNet, Node.js, Angular.js, Visual Studio Code**

Computer System Security Labs | Prof. Sandeep K. Shukla (CS628)

Aug'22-Nov'22

- We were given access to cloud-based cybersecurity training platform Rootsh3ll which provides vulnerable practice labs.
- Exploited different web-application/server side vulnerabilities such as SQL injection, CSRF, XSS etc.
- Performed Network analysis using tools like nmap, wireshark etc.

Self Project

Portfolio Blog Application

Aug'22-Dec'22

- Totally dynamic Portfolio web application but I have added functionality of writing blogs here as well. So if anyone wants to write blogs, they can register themselves and start writing blogs.
- Users can see all the blogs created by other people. Also they are authorized to edit/delete the blogs created/owned by them.
- Users can reset password as well in case they forget it.
- Tool/Technologies used: **HTML, CSS, Bootstrap, JavaScript, Node.js, MongoDB, Visual Studio Code**

Skills

Programming Languages C++, C, Javascript

Web Skills HTML, CSS, Bootstrap, Node.js, Express.js, MongoDB

Operating System Windows, Ubuntu

Relevant Courses

Computer System Security(CS628)	BlockChain Technology & Applications(CS731)	Modern Cryptology(CS641)
Intro to Machine Learning(CS771)	Design for Security(CS669)	Operating System(UG)
Data Structures & Algorithms(UG)	DBMS(UG)	

Positions of Responsibility

FUNDAMENTALS OF COMPUTING - I (ESC101) | Teaching Assistant

Aug'22-Present

- Major duties involve clearing students' doubts during lab hours and grading assignments.

Extracurricular Activities

- Secretary of organising team of National Science Week, hosted by Science Club, SLIET in Feb'19
- Was Active Member at SLIET's coding and programming club SSDC from 2018 - 2022
- Subject Matter Expert (CSE) at Chegg.
- Hobbies include playing cricket, cooking & plantation.