

# Ayush Raj

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OBJECTIVE	<p>I wish to improvise my skill set to meet modern industry standards. I utilize my time doing Competitive Coding and regularly playing CTFs</p> <p>For me, my most cherished achievements were: Gold medalist at Mathematics Talent Reward Program by Indian Statistical Institute (2016) #1 in JuniorCTF (04/2019) and NoobCTF (09/2018) ,both being Cyber-Security solo competition in IIIT Allahabad</p>	
EDUCATION	<p><b>Indian Institute of Information Technology Allahabad</b></p> <p>Bachelor of Technology CGPA/Aggregate: <b>8.08</b></p> <p><b>DAV Model School, Durgapur</b> XII CGPA/Aggregate: <b>90.8%</b></p>	<p><b>2018 - 2022</b></p> <p><b>2016 - 2018</b></p>
TECHNICAL SKILLS	<p><b>Competitive Coding, Cybersecurity, Android Development, C++, Java, Python</b></p>	
EXPERIENCE	<p><b>Coding Ninjas</b> <i>Paid Intern as Competitive Programming Teaching Assistant</i></p> <p>I used to clear doubts of students in understanding course concept videos, helping them to understand, debug and solve challenges in C++, Java and Python. Working as a competitive programming teaching assistant, I was able to help thousands of students to learn and clear doubts in fundamental and advanced concepts and algorithms in competitive programming. The internship further helped me improve my own skillset to be a better programmer from ever before.</p> <p><b>IIIT Allahabad</b> <i>Paid Full Stack Developer Intern</i></p> <p>It was amazing to work on an actively used software. My assigned task was to port the college's existing software solutions with different models under a single domain of ERP i.e. Enterprise and Resource Planning. The languages used were PHP and MySQL in the back end and HTML and CSS in the front-end. A new core framework was developed by the lead developer upon which i did slight modifications sometimes according to the need.</p>	<p><b>20' January 2020—20' May 2020</b></p> <p><b>15'Sep 2019—15'Dec 2019</b></p>
PROJECTS	<p><b>Software for Restricted Data Access System to a Specific Network</b></p>	<p><b>2 months (during first summer break)</b></p>

The target audience being the organizations which communicate confidential information over intranet and internet, this software aims to facilitate data access only to specific network users ensuring an increased layer of security, even on data leakage.

The skills demanded by the project included:

->Basic information about Network Protocols and router hardware for retrieving network's Unique Device Identifier, etc.

->Cryptography required for encrypting the messages sent. Here I modified the XOR encryption and used it for encryption.

->Python Programming required for making encrypt and decrypt programs.

The overview of the project can be described as:

It encrypts the network information in the way that even if the message is intercepted would be not readable or decryptable by the person. Even if the same message is sent twice it may not be same string transmitted. This increases the data security as it won't show any type of redundancy of the encrypted text making it impossible for the malicious end to decipher new text through known encrypted and actual texts. This technology is router specific. It uses basic router information like BSSID, wifiname, etc to encrypt the text. This increases data security within an organisation.

### **Airplane Reservation System Android App(Semester Mini-Project)      4 months**

This was the Semester Mini-Project provided. This project required to imitate a working model of airline reservation system using Object Oriented Concepts. I used Android Studio in which i used Java to deliver such a functional app as required. Proper documentation of the project along with the CRC and class diagrams were also submitted and was implemented as planned.

Link: <https://github.com/ayushraj0309/SkyLines>

## **CERTIFICATION**

**Competitive Programming** by Coding Ninjas

Verify: <https://students.codingninjas.com/verify/22825a09e4ad4752>

<https://students.codingninjas.com/verify/666c60c3436a19a7>

## **HOBBIES**

**Swimming and Cricket**