

# Ayush Raj

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## WORK EXPERIENCE

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- **Coding Ninjas** Online (Delhi)  
Jan 2020 - May 2020  
*Competitive Programming Teaching Assistant Intern*  
Helped thousands of students in learning and clearing competitive programming concepts along with debugging and rectifying their mistakes and explain them the correct problem solving approach. Also joined the efforts of the team to enhance coding platform.
- **IIIT ERP Project** Allahabad, UP  
Aug 2019 - Nov 2019  
*Student Developer Intern*  
Collaborated with the existing senior developers to learn and work on the ERP project for all IIITs in India. Analysed and documented the working systems outside ERP project to be incorporated in the ERP server. Imported the working IHC (Institute Health Centre) project under ERP server.

## EDUCATION

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- **Indian Institute of Information Technology Allahabad** Allahabad, UP  
2018 - present  
*BTech in Information Technology (IT)*  
CGPA: 8.08 (4 semesters)
- **DAV Model School Durgapur** Durgapur, WB  
2016  
2018  
*X (CBSE Board): CGPA: 10*  
*XII (CBSE Board): Percentage: 90.4*

## SKILLS

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- Programming in C, C++, Java, Python
- Database Management System
- OOP Concepts
- Data Structures and Algorithms
- Cryptography and Image Forensics
- Android Development (Basics)

## ACADEMIC PROJECTS

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- **Graph Algorithms GUI:** Developed a desktop software which helps in drawing and editing the graphs by mouse click and keyboard interrupts in GUI mode. Various operations can be selected using buttons provided, like shortest path between two vertices in the graph can be computed using the provided objects(shapes). On loading the queries, objects will move graphically from the initial to final vertices along the shortest path, implemented using Dijkstra's algorithm.  
**Technology Used:** Java using JavaFX packages
- **Restricted Data Access Programs:** Developed Linux-based programs to communicate confidential information over the network encrypted using unique keys and advanced XOR algorithms.  
**Technology Used:** Python
- **SkyLines Airplane Reservation:** Developed an android app which authenticates users and stores routes of the loaded airplanes and imitates the airplane reservation system.  
**Technology Used:** Java, XML and Android Studio

## AWARDS AND ACHIEVEMENTS

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- Winner of JCTF 2019, solo Cybersecurity contest in IIIT Allahabad and got \$120 worth prize.
- Gold Medallist at Indian Statistical Institute due to selection at MTRP (Mathematics Talent Reward Program) 2016.
- Secured AIR 3746 in JEE Mains 2018.

## POSITION OF RESPONSIBILITY

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- Cybersecurity member at technical society which represents academic team in CTFs all over the world.
- Successfully organised events such as Gully Cricket at Effervescence, cultural fest of IIIT Allahabad.