

# Utkarsh Agrawal

uagrawal91@yahoo.in | +91 9198072631  
LinkedIn - utkarsh4284

## EDUCATION

### INDIAN INSTITUTE OF TECHNOLOGY (IIT) BHILAI

B.TECH IN COMPUTER SCIENCE AND ENGINEERING  
2017 - May 2021  
CGPA: 7.71/10

### KEY COURSEWORK

Blockchain  
Cryptography  
Electronic Payment Systems  
Machine Learning(ML)  
Data Analytics and Visualisation

## SKILLS

### LANGUAGES PROFICIENT:

Python • Bash • Java • C • LaTeX

### PENETRATION TESTING:

Experienced at gaining root access into Windows and Linux Machines  
Active member on HackTheBox and TryHackMe

### CTFs:

Cryptography • Web Exploitation • Reverse Engineering

### SOFTWARE TOOLS:

Git • Android Studio • BurpSuite

## ACHIEVEMENTS

### ECPTV2 CERTIFICATION

Credential ID - 3371357

### HALL OF FAME

Dell, BBC, Xfinity, Skyscanner and many more

## WORK EXPERIENCE

### ATONARP MICRO-SYSTEMS | MEMBER OF TECHNICAL STAFF (MIDDLEWARE)

May 2021 - Present | Bangalore, INDIA

- Building and optimizing MW services, implementing asymmetric multi-threaded environment for faster execution times
- Python based application development
- Security and Hardening of APIs

### THINK FUTURE TECHNOLOGIES | CYBERSECURITY INTERN

May 2019 - July 2019 | Gurugram, INDIA

- Built scripts and exploits to automate the discovery of low hanging vulnerabilities
- Found major vulnerabilities on websites of clients of the company including an RCE on the TFT website

### BUGCROWD AND HACKERONE | FREELANCE BUG BOUNTY HUNTER

May 2019 - May 2021

- Reported vulnerabilities on programs listed on these websites
- Gained experience of finding bugs on live websites

## ACADEMIC PROJECTS

### NFC BASED PAYMENT APP | ANDROID | JAVA | PYTHON

- Developed an Android app that utilizes NFC to make payments
- Designed and implemented custom protocols for Peer to Peer (P2P) and Peer to Vendor (P2V) transactions
- Two NFC enabled devices could transfer money just by touching

### RESEARCH ON SECURITY OF MUSIC STREAMING SERVICES

PYTHON | BURPSUITE

- Worked with de.ci.phe.red Lab on security of services like Saavn, Gaana, Spotify with respect to DRM enabled music
- Used BurpSuite to analyze the APIs used to stream the music
- Found vulnerabilities in the API that allowed music to be downloaded illegally

## EXTRA-CURRICULARS

### DE.CI.PHE.RED LAB

CORE MEMBER

Organized CTF competitions

Researched on security of music streaming services

### DC1PH3R (CTF TEAM)

FOUNDING MEMBER

Gained valuable experience in exploiting cryptography and web applications  
Participated and won in various CTF and hacking competitions