

# KARTIKEY SHARMA

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**About Me:** MCA, BTech (CSE), Technocrat, Enthusiastic, Quick Learner and Realistically Optimistic

## EDUCATIONAL QUALIFICATIONS

Course/Examination	Institution/University	Year of Passing
Master of Computer Application	IEC University, Himachal Pradesh	2020
Bachelor of Technology (Computer Science)	Inderprastha Engineering College (Dr. A.P.J. Abdul Kalam Technical University)	2017

## TECHNICAL SKILLS

- **Programming Languages:** C, C++
- **Scripting Languages:** Python, Bash
- **IDE Used:** Microsoft Visual Studio, NetBeans, Eclipse
- **Game Engines:** Unity 3D, Unreal Engine
- **Application Software:** MS Office, Adobe Photoshop, Adobe After Effects
- **VAPT Tools:** MSF, OWASP ZAP, Burpsuite, IDA Disassembler, Cheat Engine, ReClass
- **Extras:** Blender, Google Sketchup, Linux OS, FL Studio

## EXPERIENCE

- Internship at **CEB (Now Gartner)** a member-based Advisory with intensive research articles for almost all spheres of corporate obstacles and management. Under these 4 Months I worked with a team of interns as well as experienced managers to migrate company data from an old CMS to a new better CMS while taking care of the bugs and errors that popped up during the process.
- Worked at NITI Aayog as a Young Professional for 4 months. Under the guidance of Mr. M.K. Talwar (Sr. PS to Mr. Amitabh Kant, CEO, NITI Aayog) while developing a proof of concept for a highly secure voting and banking system based on the blockchain technology
- Worked as a JRF at CFEES, DRDO, Ministry of Defence, Timarpur, Delhi from May, 2018 to May, 2020. Working there changed my life in a very positive and fulfilling way as I was directly working on projects of national interest. Being a part of the nation's top scientist team is something I take pride in, and hope to reflect in my future job prospects.
- Co-founder and community leader of "The White Circle", a community aimed at sharing and cultivating knowledge about advanced computer technology and cyber security.
- Successfully rooted 12 (and growing) systems on HackTheBox pen-testing platform. Skills learned – Target reconnaissance, Vulnerability identification and assessment, Vulnerability exploitation and Intrusion, Privilege Escalation.

## PROJECTS UNDERTAKEN

- **Gaganyaan – Team Member**  
Responsible for design and development of the safety system to be installed in Gaganyaan, ISRO's first mission to send a manned space craft into Earth's orbit for research.
- **Internal Network Auditing and rigorous VAPT within the organization network**  
Documentation with detailed and precise PoC along with suggestions to prevent data breaches and general guidance to all personnel bolstering organization network security.
- **Feasibility Study of Reconnaissance Drone capable of long-range Signal Interception and Scrambling**  
A drone physics simulation software was developed to help in the making of a prototype Reconnaissance Drone capable of delivering signal interception payload at the designated target and essentially find vulnerable entry points.
- **Mobile Metallic Ramp (MMR) – Team Member**  
The Mobile Metallic Ramp (MMR) was a portable ramp technology mounted at the end of a train bed to rapidly load and unload heavy combat vehicles for transportation to the front lines.
- **Parallel and Cluster Processing for the modeling and simulation project work at CFEES**  
Modeling and Simulation of complex geometric models is a resource intensive task. With the help of parallel processing and further addition of cluster processing, we accomplished more than 10 times reduction in the computational time.
- **ESP Exploit development**  
Reverse engineering of multiple games online and offline to dump player data from the game memory and draw it over the screen in an overlay to gain extra information and gain advantage over other players.

## EXTRA WORK & ACHIEVEMENTS

- Hosted two different Technical Innovation competitions, one intra-college and one inter-college
- Led the Technical Team during the College Cultural Fest "**Udbhav**"
- Developed an open-source **Global Language Translator** and text to speech application used by local schools to teach proper pronunciation of various languages
- Organized a large-scale inter-college **PC Gaming Tournament** called Choir of Guns
- Received the title of "**Technology King**" of School in Secondary School
- Participation and leaderboard positions in multiple CTF tournaments.
- Secured 8<sup>th</sup> rank globally in Brixel CTF

## FIELD OF INTEREST

- Cyber Security
- Game Design and Development
- Reverse Engineering

## PERSONAL INTERESTS

- Gaming
- Programming
- Astronomical science
- Sketching
- Making Music
- Modifying games and software
- Writing
- Pushing the limits

## WEB LINKS

- Github – <https://www.github.com/chronocruz>
- Hack the Box – <https://www.hackthebox.eu/profile/391818>
- LinkedIn – <https://linkedin.com/in/chronocruz>