

# Gaurav Raj

Red Team OP & Software Engineer  
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## EDUCATION

B.Sc (Hons.) Zoology	Magadh University, Bodh Gaya	2021
I.Sc (Science)	R.R.P. College, Bhergawan	2018

## EXPERIENCE

Python Developer <i>Cybercraft Labs Pvt Ltd</i>	Sept 2023 - Nov 2024 <i>Patna, Bihar</i>
Market Representative <i>Nouveau Medicament Private Limited</i>	Apr 2023 - Sept 2023 <i>Patna, Bihar</i>

## CERTIFICATION & AWARDS

Top 1% on TryHackMe	08/2021 - Present
Jet Fortress (External Web Pentest), HackTheBox	2023
Computer Forensics Course PRO: CFCT+, Udemy	2023
Reverse Engineering & Malware Analysis x64/32: CRMA+, Udemy	2023
Active Directory Pentesting - Red Team Hacking, Udemy	2023

## SKILLS & INTERESTS

**Hacking** Red Team Operations/Penetration Testing, Reverse Engineering, Web Application Security  
**Security Tools** Burpsuite, Cobalt Strike, Sliver, BloodHound, Wireshark, IDA Pro, CrackMapExec  
**Programming** C, C++, Python, Java, Go, Rust, Zig, JavaScript, Bash, PowerShell, TypeScript, PHP  
**Development** Backend, Frontend, Web/Mobile/Desktop Apps, APIs, Systems (Low Level), DSA  
**DevOps** Linux, Docker, Kubernetes, AWS, GCP, CI/CD, Git, GitHub/GitLab, Vagrant, Terraform  
**Tooling** Vim, Tmux, GNU toolchain, QEMU/KVM, clang/llvm, gdb/lldb, strace, lsof, tcpdump  
**Soft Skills** Problem Solving, Agile Development, Communication, Technical Writing, Code Review

## PROJECTS

Berserk Arch   <a href="https://berserkarch.xyz">berserkarch.xyz</a>	Hacking & Dev-Ready Linux Distro - 2025
<ul style="list-style-type: none"><li>• <b>Tech:</b> Tor, Linux, ISO building, Systems Design, Package Management, Git</li><li>• <b>Features:</b> Amnesic live system, native Tor integration, comprehensive tools repository</li><li>• <b>Impact:</b> OS-level security implementation, live system architecture, anonymous networking</li></ul>	
Passcraft   <a href="https://github.com/thehackersbrain/passcraft">github.com/thehackersbrain/passcraft</a>	Password Wordlist Generator - 2023
<ul style="list-style-type: none"><li>• <b>Tech:</b> Rust, Cargo, Bash, Git</li><li>• <b>Features:</b> Target-based wordlist generation for credential attacks</li><li>• <b>Impact:</b> Password security research, efficient wordlist algorithms, Rust memory safety</li></ul>	
CPUInfo OS   <a href="https://github.com/thehackersbrain/cpuinfo-os">github.com/thehackersbrain/cpuinfo-os</a>	Custom Operating System - 2022
<ul style="list-style-type: none"><li>• <b>Tech:</b> C/C++, x86-64 Assembly, Bash, QEMU/KVM</li><li>• <b>Features:</b> Custom bootloader, kernel, shell, and high-level utilities (text editor, terminal)</li><li>• <b>Impact:</b> Advanced memory management, deep OS internals understanding</li></ul>	
Hiddenwave   <a href="https://github.com/thehackersbrain/hiddenwave">github.com/thehackersbrain/hiddenwave</a>	Audio Steganography Tool - 2021
<ul style="list-style-type: none"><li>• <b>Tech:</b> C/C++, Python, Bash, CMake, Git</li><li>• <b>Features:</b> Hide text, images, files in audio (.mp3, .wav) via low-level manipulation</li><li>• <b>Impact:</b> Audio format internals, memory management, data encoding techniques</li></ul>	