

Gaurav Raj

Security Researcher & Software Developer

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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

Cybercraft Labs Pvt Ltd

Sept 2023 - Nov 2024

Patna, Bihar

Market Representative

Nouveau Medicament Private Limited

Apr 2023 - Sept 2023

Patna, Bihar

CERTIFICATION & AWARDS

In Top 1% on TryHackMe

08/2021 - Present

Completed Jet Fortress (External Web Pentest), HackTheBox

2023

The Complete Computer Forensics Course PRO: CFCT+, Udemy

2023

Reverse Engineering & Malware Analysis x64/32: CRMA+, Udemy

2023

Active Directory Pentesting Full Course - Red Team Hacking, Udemy

2023

SKILLS & INTERESTS

Hacking Pen Testing/Bug Hunting, Binary Exploitation, Reverse Engineering, Web Hacking

Programming C, C++, Python, Java, Go, Rust, JavaScript, TypeScript, PHP, Kotlin

DevOps Linux, Docker, AWS, GCP, CI/CD, Git, Github/Gitlab, Netlify/Vercel

Soft Skills Problem Solving, Agile Development, Teamwork, Communication

PROJECTS

Vigilate Arch | <https://vigarch.cybercraftlabs.org>

Anonymous, Live & Amnesic OS - **2024**

- **Tech Stack:** Tor, Linux, ISO-build, Systems design, Package Management, Git
- **Features:** Amnesic and Live System, Native Tor Integration, Vast Tools Repository
- **Accomplish:** Better understanding of authentication & authorization while handling user data.

Passcraft | github.com/thehackersbrain/passcraft

Password Wordlists Generator - **2023**

- **Tech Stack:** Rust, Cargo, Bash Script, Git, Github
- **Features:** Complete CRUD System, Admin Dashboard, SMS & Email Notifications
- **Accomplish:** Better understanding of file uploads, data storage and asynchronous notification handling.

CPUInfo OS | github.com/thehackersbrain/cpuinfo-os

A Complete OS from Scratch - **2022**

- **Tech Stack:** C/C++, x86-64 Assembly, Bash Scripting, Low-level emulation (i.e qemu/kvm)
- **Features:** Custom written bootloader, kernel, shell, high-level utilities (i.e text editors, terminal).
- **Accomplish:** Learnt better memory management and deeper understanding of working of OS.

Hiddenwave | github.com/thehackersbrain/hiddenwave

Audio Steganography Tool - **2021**

- **Tech Stack:** C/C++, Python, Bash Scripting, CMake, Git/Github
- **Features:** Authentication System, CRUD-riched Posts System, Complete Backend
- **Accomplish:** Learned low-level audio-manipulation, memory management & garbage collection.