

Kushagra Dwivedi

+91 7420016272 | kushagra.finn@gmail.com
kushagradwivedi.tech | <https://github.com/yakitoritrash>

Senior-year Integrated MTech student specializing in cybersecurity, with strong programming and problem-solving skills. Experienced in software development and cybersecurity, seeking a role to apply my expertise in both fields to build secure and innovative solutions.

WORK EXPERIENCE

Frontend Developer & UI/UX Designer – Cashin.club 2023-2024

Designed and developed the frontend for a credit card marketplace, improving user experience and engagement. Contributed to product ideation, shaping key features and workflows.

PROJECTS

Malware Analysis Lab (Isolated Virtual Network) September '24

- Built an isolated malware analysis lab using FLARE VM and REMnux, ensuring safe containment.
- Enabled secure malware reverse engineering by blocking external network access.

Active Directory Deployment August '24

- Deployed Windows Server 2019 AD DS with a Windows 10 client in a virtualized lab using VMware & VirtualBox.
- Implemented DHCP, RAS/NAT, and domain policies to simulate enterprise network authentication.
- Facilitated user/group management and network security testing in an Active Directory setup.

Self-Hosted Cloud Storage November '24

- Repurposed an old laptop as a personal cloud server for remote file access.
- Linked it to a custom domain via Cloudflare for public accessibility.
- Secured access with Cloudflare Zero Trust, ensuring secure authentication and threat protection.

AWS Hacking Lab August '24

- Developed an AWS-based penetration testing lab, reducing setup time by 80% with Terraform & AWS CLI.
- Conducted network forensics and exploit testing using Kali Linux, Nmap, and Metasploit.

Miscellaneous Projects August '24-Present

- Ping/Multi Ping Web Application: Built a Python-based web app using the Bottle framework to ping and monitor client devices via DNS or IP addresses.
- Flight Managing Web Application: Developed a Django web app to manage and sort passengers by flights, with SQLite as the database.
- Developed my portfolio website using React.js and hosted it over my custom domain.
- Currently developing a compiler to transform and optimize code execution efficiently.

EDUCATION,

VELLORE INSTITUTE OF TECHNOLOGY, BHOPAL 2021-2026

Integrated Masters of Tech in Computer Sciences
with specialization in Cyber Security

COURSES & CERTIFICATIONS

- NPTEL Blockchain and its applications, IIT Bombay TechFest Ethical Hacking, Google cybersecurity professional, Advent of Cyber 2024 (TryHackMe)

SKILLS

Python, Javascript, Typescript, React.js, JSON, Django, Linux, TCP/IP, SQL, AWS, SSH, Git, WSL2, Kali Linux Tools, Docker, HTML CSS, SASS