

KUSHAL CHOUDHARY

Computer Science Undergraduate

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EXPERIENCE

Security Engineer

Nearcast

Oct 2020 – Feb 2022 Bangalore, India

- Work closely with dev on implementation of features in secure way and perform timely pentesting with appropriate reporting

Software Development Engineer

Winuall

Oct 2020 – Jan 2021 Bangalore, India

- Working mostly with Backend tech: Gin (Golang), FastAPI, Flask (Python), Docker, K8

Web Developer and Pentester

DSC-VIT

Dec 2019 – April 2021 VIT, Vellore

- Working with team on design, development and hosting of projects
- Leading the team on pentesting developed applications and defining security parameters for projects
- Experience with managing a team and technical events

CTF Player

CSI-VIT

Oct 2020 – March 2021 VIT, Vellore

- Team ranked number 8 in India and 117 in World in year 2020
- Favourite challenges are web exploitation, reverse engineering, malware analysis

ACHIEVEMENTS

- Conducted multiple workshops on Data Structures, Ethical Hacking and Open Source Contribution
- Coordinator at DevTalks, WomenTechies, Explore ML
- Question Moderator for Knockouts event by DSC-VIT
- Secured Web-Apps with user base above 5k people, like CET
- Worked with small independent startups as a Developer and Pentester

SKILLS

Python, JS, Java, C, DSA
Web-App Pentesting, Mobile-App Pentesting

PROJECTS

GitHub Social Collaboration Network

- GitGram is a social network for GitHub users where they can perform analysis on a GitHub user by providing the username.
- Uses graph structure and social network analysis concepts for finding Important Users, User and Projects Recommendation and more
- Web-Scrapping, Web App developed using FastAPI, Native JS and Bootstrap

Dark Web Crawler

- Scrape and Store Dark Web Sites along with their Latency, Search Engine Oriented

Mentimeter Lite

- Online Poll Maker
- NodeJS, Sockets, jQuery
- github.com/1UC1F3R616/Mentimeter-Lite

PWA for Real Time Attendance

- Real-time attendance tracking of community members

Flask Docs and Secrets Check

- Generates Docs for Flask Projects and checks if any sensitive data is not present in code

Bug Bounty Article Feeder

- Bot that tracks new updates on coded sites and creates a notification on Discord and Telegram
- Hosted using AWS Lambda on CSI Discord and Telegram Bot

PENTESTING

Bash Injection

- Found in Internal Pentests at DSC-VIT in Groff Editor, Compute-Monitoring-Bot. Impact was critical as it allowed env leak

API Vulnerabilities

- Found in External Pentest for CodeChef-VIT in CET. Impact was critical as it lead to account takeover
- Business logic flaw in Tracxn API exposing paid data

NodeJS, Django, Flask, React, Git, AWS, Web-Scraping

EDUCATION

Bachelor of Technology

Vellore Institute of Technology

📅 June 2018 – Present

Class XII

M.D. Sr.Sec. School Staundi Karnal

📅 March 2016 – April 2017

PROJECTS

Cookie Analyzer and Session Hijack

- A tool to find sensitive Keys and Passwords in your cookies
- Exploit for Moodle and Schoology
- <https://github.com/1UC1F3R616/Cookie-Analyzer-and-Session-Hijack>

Fast Proxy

- MultiThreaded (on single CPU) Application to Scrape Working Web Proxies
- More than 300 Live Proxy Fetch, Selection of Proxy based on Speed
- Published as pip package

ReconChimp: Fast Reconnaissance Framework

- An automated reconnaissance framework meant for fast enumeration of an organization's assets.

Duplicate Images Detection using Parallel Processing

- Detect Duplicate Images Blazing Fast
- Processing Speed Comparisons with Parallel Fundamentals

YouTube 4K Video Audio Downloader

- CLI Tool for easy downloading Playlists etc from YT uses ffmpeg in background

Selenium Cookie Injector

- Python module for injecting your browser session cookies to the selenium headless browser window
- Published as pip package

Classful EDF Scheduling Algorithm

- Solves the problem of Domino Effect in original EDF Algorithm
- Combines elements of Priority Scheduling Algorithm into the existing EDF Scheduling Algorithm
- Falls under Preemptive Scheduling Algorithms

MultiConnection Chat-Platform Server Client Model

- Synchronized multi user chat application
- Uses Sockets on TCP Protocol

My Browser Tabs

- Restore Browser Tabs from last session or any saved point

CERTIFICATES

Android App Penetration Testing

Issuing organization: LinkedIn

DevSecOps: Continuous Application Security

Issuing organization: LinkedIn

Advent of Cyber 2020

Issuing organization: TryHackMe

Credential ID: THM-FF77Q6BLFH

Penetration Testing: Advanced Tunneling and Exfiltration

Issuing organization: CompTIA

Credential ID: ABrzOQn-vCSk5661DxIAqoTqtZnWH

Database Design

Issuing organization: DataCamp

Java Programming Masterclass for Software Developers

Issuing organization: Udemy

Unsupervised Learning in Python

Issuing organization: DataCamp