ATHARVA PANKAJ THORKAR | 20AE10007

AEROSPACE ENGINEERING(B.Tech 4Y)

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2024	B.TECH	IIT Kharagpur	7.43 / 10
2020	HSC	Prerna Junior College, Nagpur	85.2%
2018	SSC	ST Paul School, Nagpur	90.2%

INTERNSHIPS

Web - Dev Intern | Web Development | Society of Space Education Research and Development   [Nov'21 - Dec'21]

- Designed and developed web pages with such a design concept that increased positive students' responses **by 40%**
- Developed **3D modelling skill** and used them in web page helping students envision and analyse models effectively
- Implemented framework and best - practice for customer experience, tends **to result in 20% rise** in conversion rate

Back-end Intern | Web Development | Graviti   [Nov'21 - Dec'21]

- Worked with databases and implemented data storage and retrieval solutions using **SQL** and **Postgresql** technologies
- Used **Nest.js** to build a server-side application with an organized codebase, resulting in easier maintenance and development.
- Worked with **Redis** servers to manage queues and prioritizing tasks while working on mailing service using **zeptomail**

PROJECTS

AlmaGrade | Website | Client Project   [Dec'21 - Feb'22]

- Designed and built a website for a client which then enabled students around the world to link with ideal mentors
- **Simplified administration** for admins, providing an efficient backend, proper GUI & necessary operations options
- Re-engineered user interface for rich user experience and have projected around **1000 members** by the end of 2022

Web-Scrapper | Python Script | Self Project   [Mar'22 - Apr'22]

- Developed a Python script to **crawl** the web pages employing python modules like **BS4, GoogleSearch and Scrappy**
- Optimized chances of finding target files by **around 40%**, providing word list of **10000+** most important file names
- Intend to expand and make it a valuable asset for entrants to the field by putting my expertise of pentesting to use

Wifi Deauther & Rubber Ducky | Self Project   [Jan'22 - Feb'22]

- Developed a **Wi-Fi deauther** using **ESP8266** to perform attack such as Wi-Fi takeover, man in the middle attack
- Developed a **rubber ducky** using the **raspberry pie pico**, used to carry out automation attacks upon various targets
- Leveraged both tools to demonstrate the danger of unawareness and its effects to my friends and family members

Keylogger Detection using Memory Forensic and Network Monitoring | Report | Self Project   [Apr'22 - May'22]

- Investigated keyloggers and their operation, including target elements, logs transmission techniques and impacts
- Developed set of procedure for detection of keylogger on machine using **memory forensics and network monitoring**
- Designed a tool to **automate detection** of keyloggers instead of manual work and eliminate them at the same time

SKILLS AND EXPERTISE

Programming Languages: JAVA, C++, C, Python. JavaScript.   **Web-Development:** HTML,Scss, Django, REST.
Web-Pentesting: Burpsuite, Nmap, Cryptography, Injection, Metasploit.   **Software:** Matlab, Git, Blender, Linux.

COURSEWORK INFORMATION

Programming and Data Structure | Advance Calculus | REST API with Flask and Python | Operating System
Computer Organisation and Architecture (Google - Coursera) | Cyber-Security (Coursera - IBM) | Learn Ethical
Hacking From Scratch (UDEMY) | Bash Scripting for beginners | Cryptography

CERTIFICATIONS

Development | Programming Languages

The Web Developer Bootcamp 2022 (Udemy) | Java Programming Masterclass covering Java 11 &Java 17 (Udemy)

Cyber Security | Ethical Hacking | Pentesting

Advent of Cyber 2021 (Try Hack me) | Learn Ethical Hacking From Scratch (UDEMY)

EXTRA CURRICULAR ACTIVITIES

- **Pentested** various websites, reported exploits and vulnerabilities on the websites, preventing **data theft and site takeover**
- Worked as a freelancer for **6 months**, working on different projects, honed my **programming and problem solving** skills
- Secured **Rank 1** in district level Lokmats' debating tournament held in Nagpur which had over a **100** contestants in record
- **Captain** of Scout and Guide in school, presented school at various competitions and camps arranged for cadets in the district