

Aadhaar Koul

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EDUCATION

Model Institute of Engineering and Technology, Jammu

Jammu, India

Bachelor of Computer Science and Engineering 4th year;

2020 - 2024

Delhi Public School, Jammu

Jammu, India

Intermediate of Science; CGPA 9.1/10

2018

Coventry Scholars, Jammu

Jammu, India

Matriculation; Percentage;78%

2020

INTERNSHIPS

MIET Internship (Project Intern)

July 2022 - Present

Director's Internship · MIET, Jammu

- : Collaborated with top college faculty including the college director on a Security based Framework Project.
- : Filed a patent on the idea and delivered the very first functional version of the framework.
- : Writing research papers based on federated learning models , new and real time hacking methods for windows and Linux privilege escalation.

LINODE Cloud IT Support Engineer (Cloud Intern)

Dec 2021 - Apr 2022

Paid Internship received after CTF Competition · Linode ,

- : Worked with Cloud division head -(Jamie Park) under the mentorship of BrittonDuer.
- : Hosted and served multiple server instances for 5 startup companies and an NGO.

Klient Assist WEB Developer (Web Dev Intern)

July 2022 - Jan 2023

Intern Web Developer : Jammu

- : Made the organization website from scratch that can be viewed at (<https://klientassist.com/>).
- : Recruited the best people for the organization that fit the best job roles.

PROJECTS

- : **Security based Cyber Hygiene Tool (Web Development + Artificial Intelligence Project):** It is an intelligent security based Chrome Extension with a recommendation , malware block advisory message federated learning security framework functionality that learns from certain scenarios and protect the other distributions of the framework from the captured scenario using a federated learning model.
- : **Security oriented Web Browser (Software Engineering Project) :** It is a lightweight , userfriendly Web Browser packaged for the Windows PC platform built in C# language on Microsoft's DotNet framework IDE with a password saving , Javascript support , ad blocker , and a functionality.Furthermore on the project can be found in the github repository.
- : **Intrusion Detection and parameter security based IOT Solution (Software Engineering + IOT + cloud Project) :** It is a cloud based coordinated hardware solution that uses certain sensors to ensure premises parameter security , a notification system , computer vision technology and Neural Networks to capture all possibilities of Intrusion , detect them and execute protocols accordingly.
- : **Plant Disease classification and Remedy recommendation model(Machine LearningProject) :** It is a python based framework project that when pointed towards a plant classifies it into different plant categories and recommends a remedy or a possible solution for the disease using Machine Learning.

- : **Application for AICTE(Android Development Project):** It is an Institute oriented Android Application made in java and XML language on the Android Studio IDE. The application was a part of the SIH(Smart India Hackathon 2022) and was made for AICTE(All India Council For Technical Education) by a team of 6 members.
: (Aadhaar Koul , Arjun Charak , Diksha Bhat , Dhamini Gupta , Shrutam Chalotra , Manthan Kalia.)
- : **Cybersecurity Training App(Android Development Project [Unpublished]):** It is a lightweight , userfriendly , beginner oriented cybersecurity training application made in java and XML that includes reading material , code snippets , mini projects and a ranking functionality. The app ranks the user even higher while they progress more through the app course. Moreover it familiarises the user with languages like Arduino , shell scripting , ducky scripting and python for cybersecurity.
- : **Deep Web Navigation and Utility Tool (Cloud and Web Development project):** It is a user friendly web platform built to efficiently and safely navigate the deep web without landing on untrusted platforms. The tool provides wiki portals , chatrooms , free softwares , news and much more informative portals about the deep and dark web. The portal leverages the cloud platforms like AWS and Firebase for load balancing and storage purposes.

PATENTS

- : **"SYSTEM AND METHOD FOR PROVIDING ARTIFICIAL INTELLIGENCE (AI)-BASED CYBER- HYGIENE FRAMEWORK":** Ankur Gupta , Aadhaar Koul. File Number:20211069581 - Issued Dec 2 , 2022.

RESEARCH PAPERS

- : **"AUTOMATING RETRO GAMES USING REINFORCEMENT LEARNING AND DEEP-Q-LEARNING MODELS":** Aadhaar Koul , Arjun Charak - 2022 (Unpublished)
 - : **"NETWORK TRAFFIC AND LOAD ANALYSIS ON A LAN FOR EFFICIENT GRAPH EXPLORATION":** Aadhaar Koul , Arjun Charak , Shobit Kitchloo , Shafin Showkat , Anil Kumar , Siddharth Bhawani - 2022 (Unpublished)
 - : **"INTRUSION DETECTION FRAMEWORK IN HOME AUTOMATION SYSTEMS USING COMPUTERS VISION AND HONEYPOT SYSTEMS ":** Aadhaar Koul , Arjun Charak , Baseer Fatima , Novneet Singh - 2023 (Persuing)
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TECHNICAL AND PROGRAMMING SKILLS

Languages: C, C++ , C# , Python , Micro Python , Java , Javascript , HTML , CSS , PHP , SQL , BASH , Arduino , CMD / Powershell / Terminal scripting.

Technologies: Android Studio , Java Play , Microsoft Visual Studio , Linux , Kali , Raspberry Pi , Apache2 , Nginx , Networking tools , Penetration Testing Tools , OSINT , Microsoft Tools, Canva , Figma , Wireshark. , Blynk Cloud

CERTIFICATIONS

- : **EJPT(Elearn Junior Penetration tester):** Elearn Security
- : **CCNA(Cisco Certified Network Associate):** CompTIA A+
- : **A+ :** CompTIA A+
- : **Cyber Security Fundamentals:** IBM
- : **Cyber Security Specialization :** Coursera

