



# Moulik Singh Arora

Software Developer | CEHv12 & SC-900 Certified

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Portfolio | GitHub | HackTheBox | GFG | HackerRank | LinkedIn



## TECHNICAL SKILLS

**Languages:** Java, Python, OOPS, Collections, SQL, MySQL, DSA, HTML/CSS, Docker, Basic CI/CD principles.  
**Domains:** Software Development, Cloud, SDLC, Machine Learning/Artificial Intelligence, Cybersecurity, Data Analysis.  
**Technologies:** AWS, Azure, Jmeter, PowerBI, Github, Tableau, LaTeX, Windows, Linux (Kali/Parrot/Ubuntu).  
**Cybersecurity:** Maltego, Nessus, Burpsuite, Wireshark, Metasploitable framework, Owasp Zap, ChatGPT.

## WORK EXPERIENCE (INTERNSHIPS)

### Carvach

Mar 2024 - Apr 2024

Backend Developer and Azure Security Consultant (*Part time*)

- Responsibilities include as a Backend Developer and Azure Security Consultant, working on backend infrastructure development using Python, Docker, FastAPI, and OAuth. Additionally, focusing on enhancing the security of Azure-based cloud services.

### Cyber Secured India

Dec 2023 - Feb 2024

Cyber Security and Digital Forensics Intern

- Skilled in network security principles. Experienced in various injection methods, authentication vulnerabilities, and privilege escalation, utilizing tools such as BurpSuite, Metasploit, and Nmap. Gained insights into cloud security and digital forensics.

### Shineway

Dec 2023 - Jan 2024

Data Science Intern

- Concentrated on data analysis and visualization, manipulating sales and financial datasets with pandas and crafting advanced visualizations with matplotlib and seaborn, emphasizing statistical analysis for trend identification and predictive insights.

### Hacker Bro Technologies

Sep 2023 - Dec 2023

Red Team Engineer Intern

- Enhanced cybersecurity skills by completing over 12 intensive red team training labs, resulting in a remarkable 20% improvement in identifying system vulnerabilities.

## PROJECTS

- Drowsiness Detection System - Software/IoT Project**, Led a team of 4 in developing a drowsiness detection system to enhance road safety. Advanced the software to 4 different commercialized models. [GitHub](#)
- Real-time Synthetic Voice Detection**, Engineered a Flask application using Wav2Vec2 and ML for synthetic voice detection, integrated with Twilio for alert users. [GitHub](#)
- RomSdetector - Cyber Forensic T20 Series, VIT University**, Led a 3-member hackathon team in collaboration with Maltego to combat online romance scams using web scraping, ML, and forensic methods. [GitHub](#)
- FashionDNA - Flipkart Grid 5.0 Hackathon**, Developed a GenAI outfit generator for Flipkart 5.0 grid, aligning with user tastes and directing users towards the buying site. [GitHub](#)
- Face Recognition using K-Nearest Neighbors (KNN) Classifier**, Developed facial recognition system with Harcas-cade frontal face, achieved 98.4% real-time detection accuracy on a small dataset. [GitHub](#)

## EDUCATION

Vellore Institute of Technology

Vellore, Tamil Nadu, India

B.Tech in Information Technology

2020 - 2024

## CERTIFICATIONS

- IEEE Access Certificate of Research Journals Reviewer Recognition - IEEE Access, 2023
- AWS Cloud Practitioner Essentials Training - 2023
- CEHv12: Certified Ethical Hacker (94%) - EC-Council, 2023
- SC-900: Microsoft Certified Security, Compliance, and Identity Fundamentals (88%) - 2023
- Cyber Defense Engineering using Python - Cybervidyapeeth Foundation, 2023.
- Digital Forensics Essentials (DFE): EC-Council - 2023
- Cybersecurity Virtual Experience Program - JPMorgan, ANZ, AIG Shields Up and MasterCard on Forage, 2023
- Google Certified Digital Marketing - 2021

## ACHIEVEMENTS

- Reviewer Recognition in IEEE Access 2023**, Received recognition for reviewing four research articles and acknowledged in the Web of Science.
- Nominated as top students for a software project innovation** to present our project in **Innovation challenge and Etite-24 TechNext**.
- First Prize in Cyber Forensic T20 Series**, Collaborated with Maltego Technologies, Germany and won in Hackathon-23, Poster Designing, and Overall series.
- Selected for Round 2 of Flipkart GRiD 5.0 Software Development and Information Security Challenge**, Advanced in a competitive software development and security challenge.