Abdullah Mehtab

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Abdullah-Mehtab (GitHub) linkedin.com/in/abdullah-mehtab Portfolio Website

PROFILE

Versatile Computer Science professional with a strong foundation in mathematics and a multi-disciplinary background spanning offensive security, full-stack development, and DevOps architecture. Over the years, I've built a broad skillset spanning cybersecurity (offensive & defensive), machine learning & AI, IoT & embedded systems, and full-stack development. I thrive on solving complex challenges, whether it's deploying secure infrastructure, training ML models, or building end-to-end web systems. Currently serving as an Associate Offensive Security Engineer, leveraging a broad technical toolkit to build, secure, and optimize production-grade solutions. Proven ability to tackle complex engineering challenges through a data-driven and security-first approach. Always curious, always building, but my main motivation is MONEY.

CORE COMPETENCIES

Cybersecurity
(Offensive & Defensive Security, CIA Triad, GRC, SIEM, IDS/IPS)

Machine Learning & AI
(Supervised/Unsupervised Learning, Deep Learning, NLP, Time-Series Forecasting)

Web & Backend Development
(Full-Stack Development, REST API Design, Database Management)

Embedded Systems & IoT
(Hardware Prototyping, Microcontroller Programming, Automation)

DevOps & Cloud
(Infrastructure as Code, CI/CD Pipelines, Cloud Architecture)

Data Science & Analytics
(Data Visualization, Business Intelligence, Monitoring & Observability)

Software & General Programming
(Algorithm Design, Data Structures, Competitive Programming)

Applied Mathematics
(Numerical Computing, Statistical Analysis, Advanced Calculus)

WORK EXPERIENCE

Associate Offensive Security Engineer 09/2025 – Present
Tkxel
- Execute authorized, full-scope security assessments on diverse production ecosystems, including Web, and API assets.
- Identify systemic architectural and logic-based flaws in internal enterprise environments to mitigate organizational risk.
- Collaborated with developers to address security issues and align with OWASP Top 10.
- Actively develop skills in red teaming, and pentesting, and social engineering (HackTheBox, PortSwigger, CTFs).

Engineering Intern 07/2025 – 08/2025
Tkxel
- Cross-functional rotation mentorship.
- Project-based learning (coding, Agile, debugging, testing)
- BA, UI UX Design, Development, SQA, Cyber, DevOps
- Exposure to fast-growing tech firm (Inc. 5000, 94% client satisfaction)

Teacher Assistant 09/2023 – 07/2025
Forman Christian College (A Chartered University)
- Keep track of student information
- Hold sessions for quizzes, labs, and assignments

Remote Developer & Project Manager 03/2023 – 01/2025
Self-employed Freelancing
- Delivered custom solutions to clients worldwide
- Automation scripts, data processing tools, algorithmic programs
- Technical Research with Documentation (Report Writing)

EDUCATION

Bachelorette in Computer Science | Minor in Mathematics 03/2021 – 06/2025
Forman Christian College (A Chartered University) Lahore
CGPA: 3.9 *(6x Vice Rector's Honor List)*

Intermediate | F.Sc (Pre-Engineering) 2018 – 2020
KIPS College Lahore

Matriculation 2016 – 2018
Allied School System Lahore

PROJECTS

Cyber Sentinel: Security Monitoring System using Wazuh on Raspberry Pi 06/2025

DevOps Production Environment (Terraform, Ansible, Docker, Jenkins) 08/2025

Automated Pentest Report Generator (JSON to PDF) 11/2025

Smart LED On-Time Monitoring System (ESP32, G-Sheets, WebApp) 12/2024

AI-Powered University Admissions Chatbot (Python) 01/2025

Time-Series Forecasting & ML Deployment (Flask, ML)

Laravel E-commerce Backend Demo (Laravel 12.x, MySQL, Blade)

Linear Regression Machine Learning in Assembly 01/2024

Expression Parser Compiler Construction (C) 04/2024

Small Scale Search Engine (DSA) 04/2022

Cab/Taxi-Management-System (Tkinter) 03/2022

Gol-Gappay Stall Management System (SQL) 01/2023

Facial Image Recognition (Tensorflow) 05/2021

Space Invaders Game GUI (Java, Swing) 01/2022

Line-Following Mini-Robot (Car) 12/2022

Bluetooth Controlled Car (Arduino) 11/2023

Ludo Game GUI (Pygame) 11/2021

2048 Game (C++) 05/2023

AWARDS & ACHIEVEMENTS

6x Vice Rector's Honor List
Forman Christian College (A Chartered University)

2nd Place – Web Development Competition
Forman Ignite 2024

3rd Place – Programming Competition
Google Developer Student Club (GDSC), 2023

Top 10 Finalist – Programming Competition
FAST SOFTEC 2024

Finalist – Line Following Robot Competition
FAST SOFTEC 2025

SKILLS

Programming Languages — Bash | Python | C | C++ | Java | JavaScript | HTML/CSS | MIPS Assembly

Cyber Security — Metasploit | Burp Suite | Nmap | Nessus | Wireshark | BeEF | Pen-Testing | Wazuh | OWASP Top 10 | Vulnerability Assessment | Threat Intelligence | Wazuh configuration | Log Analysis | Security Monitoring

DevOps, Cloud & IaC — AWS (EC2, S3, VPC, IAM) | Version Control (Git) | Terraform | Ansible | Docker & Docker Compose | Kubernetes | Jenkins & GitHub Actions (CI/CD) | SonarQube | Prometheus & Grafana | ELK Stack

Machine Learning & Data Science — Tensorflow | Time-Series Forecasting | EDA & Feature Engineering | Model Evaluation | Data Visualization

Embedded Systems & IoT — Arduino | Raspberry Pi | ESP32 | Automation | Computer Architecture

Software, Tools & Documentation — VS Code, WAMP, MS Office, Canva, Technical Writing, Report Writing

Core Concepts — Data Structures & Algorithms | Algorithm Development | Digital Logic Design | Automata Theory | Compiler Design | Project Management | Software QA/Testing

Mathematics (Minor) — Probability & Statistics | Multivariate Calculus | Linear Algebra | Differential Equations | Numerical Computing | Discrete Math (incl. Number Theory)

CO-CURRICULAR ACTIVITIES

Activities Coordinator of ACM & Active Participant in CS Societies 08/2023 – 07/2024
Association for Computing Machinery (FCCU)

Activities Coodinator of Forman Ignite 2k24 02/2024 – 07/2024
ACM, IEEE, GDSC, OmniLife (FCCU)

XR Hackathon Development 08/2022 – 10/2022
OmniLife (FCCU)

- Managed a large-scale XR hackathon event
- Coordinating teams and ensuring timely execution of projects.

REFERENCES

Dr. Nazim Ashraf , *Senior Lecturer,* Indiana University
nazimashraf@fccollege.edu.pk

Miss Asma Basharat, *Co-founder Women in STEM Pakistan,* IEEE
asmabasharat@fccollege.edu.pk

Hamza Adnan Khan, *Senior Cyber Security Engineer,* Tkxel
hamzaadnan62@gmail.com

LANGUAGES

- English (fluent)
- Urdu (native)

CERTIFICATES

- Certified Web Security Expert (CWSE) – Hackviser
- Certified Associate Penetration Tester (CAPT) – Hackviser
- Web-Pentester Job Path – HackTheBox