

MUHAMMAD BILAWAL KHAN

Software Engineer

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Bilawalkhan775

in Muhammad Bilawal Khan

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Portfolio

PROFILE

I am a recent Software Engineering graduate with hands-on experience in mobile development, cybersecurity, and machine learning with a proven track record of leadership and teamwork in innovative projects. I'm skilled in developing optimized solutions and passionate about enhancing security and privacy in diverse tech environments.

PROJECTS & RESEARCH

Thesis

Identified vulnerabilities in Android applications using reverse engineering and machine learning.

GTD Data Analytics

Analyzed GTD dataset with big data tools, deriving actionable insights for South Asia.

Stress Detection Research

Designed and evaluated stress detection models with machine learning algorithms.

Comprehensive Network Simulation

Implemented secure hospital networks with VLAN, STP, and port security configurations.

Bank Management System

Developed an OOP-based Java application for efficient financial operations.

Jedit Customization

Enhanced Java based Text editor by adding modules and re-engineering core system features.

Co-curricular Web Portal

Automated management of university clubs and councils through a centralized platform.

OOP Game

Created a modular snake game in C++ using object-oriented design principles.

Alfaluh Builders Web Portal

Built a portal for managing construction transactions, schemes, and contractor data.

CERTIFICATIONS

-  **Cybersecurity Specialization**
Coursera | Google
-  **Machine Learning Specialization**
Coursera | DeepLearning.AI
-  **Linear Algebra for Machine Learning**
Coursera | DeepLearning.AI
-  **Neural Networks and Deep Learning**
Coursera | DeepLearning.AI
-  **Metasploit: Penetration Testing**
Coursera Project Network
-  **Vulnerability Scanning with Nmap**
Coursera Project Network
-  **NAVTTTC Training**
Computer Networks, SEO & Digital Marketing

EDUCATION

BS Software Engineering

BUIITEMS Takatu Campus

2020 – 2024 CGPA: 3.46

WORK EXPERIENCE

Team Lead

BISSTC

Nov 2024 – Present

- ✓ Delivered a project under budget and 25% ahead of schedule by leading a multidisciplinary team of 5, improving client satisfaction.

Cybersecurity Apprentice

PSEB, Ultrasoft Systems

Sept 2024

- ✓ Conducted 10+ web penetration tests, identifying and mitigating 5+ vulnerabilities, which reduced security risks.

Mobile Application Developer

MV Solutions Inc, Canada (Remote)

Apr 2024 – Aug 2024

- ✓ Developed a Flutter-based mobile application with user-friendly interfaces, increasing customer engagement.
- ✓ Optimized app performance, reducing load times by 25% and improving user retention.

Mobile Application Developer

Gul Technologies

Jan 2024 – Apr 2024

- ✓ Designed and implemented the Eye-Smart Helmet monitoring app for miners, visualizing sensor data through dynamic graphs, and improving safety reporting efficiency by 30%.

HONORS & AWARDS

-  **Red Team Regional Winner**
Ignite Cybersecurity Hackathon 2024
-  **National Finalist**
Ignite Cybersecurity Hackathon 2023
-  **Badminton Champion**
FG Public High School 2018

SKILLS

- Cross-Functional Collaboration
- Adaptability
- Task Prioritization
- Analytical Thinking
- Problem-Solving