# MUHAMMAD BILAWAL KHAN

## **Software Engineer**

@ engr.bilawal.dev@gmail.com

Bilawalkhan775

in Muhammad Bilawal Khan

**+92 344 3286483** 

Portfolio

# **PROFILE**

I am a Software Engineer 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.

## **Alfalah 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.Al

**Neural Networks and Deep Learning** Coursera | DeepLearning.Al

**Metasploit: Penetration Testing** Coursera Project Network

**Vulnerability Scanning with Nmap** Coursera Project Network

**NAVTTC Training** 

Computer Networks, SEO & Digital Marketing

# **EDUCATION**

## **BS Software Engineering**

**BUITEMS Takatu Campus** 2020 - 2024 CGPA: 3.46

## **WORK EXPERIENCE**

## Software Developer

#### **GUL Technologies**

Feb 2025 - Present

Currently working on the Eye Smart Lamp and Water Quality Kit projects, developing mobile applications and dashboards for each. Responsibilities include designing user interfaces, implementing Bluetooth communication for real-time sensor data, and creating web dashboards for data visualization and device management.

#### Team Lead

#### BISSTC

Nov 2024 - Jan 2025

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 Eve-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



