

# Khawar Ahemad Khan

SOFTWARE DEVELOPER · CYBERSECURITY ENGINEER · SECURITY RESEARCHER

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## PROFILE

Final-year CSE student specialising in cybersecurity and ethical hacking with production experience across full-stack development, autonomous security tooling, AI-integrated systems, and low-level Windows programming. Co-founder of two live platforms (SoleSet, IqamaPrint). Builds across the entire stack — from kernel-level process analysis and DirectX overlays to production Next.js deployments — with a consistent focus on secure, well-engineered software.

## PROJECTS

### PHANTOM — Autonomous Penetration Testing Agent

2025

*Electron · React · Python FastAPI · Playwright · TypeScript*

- Designed a browser-based autonomous pentest agent with a 33-class attack framework covering OWASP Top 10 and advanced injection categories.
- Built the full agent loop, AI intelligence module, and real-time decision layer with self-healing logic and structured report generation.

### AI Trading System — Multi-LLM Autonomous Trader

2025

*Python · Gemini Pro · GPT-4 · FinBERT · REST APIs*

- Built an autonomous trading system combining Gemini Pro, GPT-4, and FinBERT for multi-source signal generation, sentiment analysis, and trade execution.
- Designed a consensus layer that aggregates model outputs before placing orders, reducing false-positive signals.

### SoleSet — E-Commerce Platform

2024 – Present

*Next.js · Supabase · PostgreSQL · Stripe | soleset.in*

- Co-founded and engineered a full-stack e-commerce startup with admin panel, Stripe payments, and analytics dashboard.
- Secured checkout flows with webhook signature verification, row-level security (RLS), and CSRF protection.

### Project AETHER — Immersive 3D E-Commerce

2024

*Next.js · Three.js · WebGL · Supabase*

- Designed a Gen Z-targeted 3D shopping experience with a real-time synchronised 3D keyboard product viewer built in WebGL and Three.js.

### Social Super-Platform

2024

*Next.js · Supabase · Cloudflare R2*

- Architected a unified social platform merging YouTube, Telegram, Instagram, and Discord features into a single app using R2 for media storage and Supabase for real-time data.

### DirectX11 + ImGui Overlay Application

2024

*C# · C++ · DirectX11 · ImGui · Win32 API*

- Built an advanced overlay with stream-hiding, real-time FPS display, process management panel, and system utilities using DirectX11 rendering and ImGui for the UI layer.

### Game Automation Bot — Behaviour Simulator

2024

*Python · Playwright · Selenium*

- Built a human-like bot framework for QA testing and stress testing with randomised input timing, telemetry analysis, and configurable behaviour profiles.

### Mini LLM — Custom Language Model

2024

*Python · PyTorch · Hugging Face · Apple M1*

- Trained a custom language model from scratch on the Cornell Movie Dialogs dataset on an Apple M1 (8 GB RAM); implemented tokeniser, transformer architecture, and training loop.

### IqamaPrint — Document Services Platform

2024 – Present

*Full-stack | iqamaptint.com*

- Built and launched a live document printing and processing platform; sole developer for architecture, UI, and deployment.

### ACE KEY — Cryptographic API Key Engine

2024

*Go · Python · Redis · SQLite · OpenSSL*

- Built a secure API key lifecycle system with HMAC-SHA256 signing, RSA verification, and fine-grained per-key permission scopes.

### YouTube Audio Summariser with LLM Integration

2024

*Python · Hugging Face · Whisper API*

- Transcribed YouTube audio with Whisper and routed structured chunks through an LLM pipeline for contextual summaries and key-point extraction.

## EDUCATION

### B.Tech — CSE

Centurion University of Technology & Management, BBSR  
Cybersecurity & Ethical Hacking  
Expected 2027

### Secondary (10th)

Saraswati Sishu Vidya Mandir  
Passed 2021

## SKILLS

### Languages

Python, TypeScript, JavaScript, C, C#, Go, Swift, SQL

### Web & Backend

Next.js, React, Node.js, FastAPI, Supabase, Flask, Express

### Security Tools

Burp Suite, mitmproxy, Nmap, Metasploit, OWASP ZAP, sqlmap, nuclei, Wireshark, ffuf

### AI / ML

Hugging Face, Whisper, OpenAI API, Gemini Pro, GPT-4, FinBERT, PyTorch

### Cloud & DevOps

AWS, Docker, GitHub Actions, CI/CD, Cloudflare R2, Firebase

### Databases

PostgreSQL, MySQL, MongoDB, Redis, SQLite

### Systems

Win32 API, DirectX11, ImGui, Memory Forensics, DLL Injection, Process Analysis

## CERTIFICATIONS

### Tools of the Trade: Linux & SQL

Google · Dec 2024

### Networks & Network Security

Google · Nov 2024

### Play It Safe: Security Risks

Google · Nov 2024

### Foundations of Cybersecurity

ULSA · Nov 2024

### Python & C# Basics

HackerRank · 2024

## ACHIEVEMENTS

- First bug bounty report — subdomain misconfiguration (2025)
- Trained custom LLM on Cornell Movie Dialogs (2025)
- Academic recognition for AI + security research
- Built reusable black-box pentest methodology framework
- Co-founded two live production platforms