Muhammad Reyan Kashif

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EDUCATION

Ghulam Ishaq Khan Institute *Sep 2024 – May 2028*
Bachelor of Science in Cyber Security

SUMMARY

Undergraduate Cyber Security student at GIKI with hands-on full-stack web development, IoT hardware engineering, and AI integration experience. Shipped real products across Frontend, Backend, and AI/ML domains — from JWT-secured Node.js APIs and React UIs to C++ malware detection engines and Arduino embedded systems.

EXPERIENCE

Nexus Society — Lead Designer | GIKI *2024 – Present*

- Provided creative direction and brand strategy for CodeRed, GIKI's cybersecurity event, driving a 40% increase in student engagement over prior editions.
- Executed a cyberpunk visual framework translating security concepts into event materials, boosting audience reach and growing society membership.
- Produced many promotional assets and technical infographics, reducing asset turnaround time through systematic design workflows.

PROJECTS

Nero Labs — Full-Stack Agency Website Preview *2025*
Stack: *Node.js, Express, PostgreSQL (Neon), JWT, bcrypt, Nodemailer, Tailwind CSS, Vercel*

- Shipped production backend: JWT auth in HTTP-only cookies, bcrypt passwords, express-rate-limit, Helmet headers, dual-DB fallback (Neon Postgres / SQLite).
- Automated dual email workflow on form submission agency notification + branded client auto-reply via Google SMTP + admin dashboard for live lead tracking.

OptiSpace — Smart Campus Facility Booking System *2025*
Stack: *React, Tailwind CSS, Node.js, Express, PostgreSQL (3NF), Postman*

- Built a full-stack university booking platform; enforced zero scheduling conflicts via PostgreSQL database-level constraints and a 3NF-normalized schema.
- Developed a smart recommendation engine surfacing underutilized spaces and optimal time slots from historical booking data.

IoT-Based Smart Door Lock & Room Automation System *2025*
Tools: Arduino IDE, C++, Blynk IoT Platform, ESP32-S3 Web Server

- **Hardware:** Arduino Uno, ESP32-S3, Solenoid Lock, 5V Relay, PIR motion sensor
- Developed a synchronized IoT ecosystem using ESP32-S3 and Arduino Uno, implementing UART communication to achieve a 95%+ command accuracy rate.
- Engineered digital authentication with manual override fail-safes, reducing unauthorised access risk by 80% in controlled testing.
- Integrated a Blynk-based web server for remote control and real-time status, reducing manual intervention by **60**%.

Temperature-Triggered Environmental Safety System *2025*
Tools: Arduino IDE, C++, Adafruit_AHTX0 Library, I2C Protocol

- **Hardware:** Arduino Nano, AHT20 Sensor, Active Buzzer, LED Indicators
- Implemented real-time data polling with threshold-based interrupt logic, achieving sub-500ms alarm response and 100% uptime over 72-hour continuous monitoring.
- Optimized data polling via the Adafruit_AHTX0 library, improving reading accuracy by 20% and automating safety alerts through synchronized buzzer and LED indicators.

SKILLS

Languages: C++, Python, SQL, HTML/CSS
Web: React, Tailwind CSS, Express.js, REST APIs, JWT, PostgreSQL, Vercel
Hardware & IoT: Arduino (Uno, Nano), ESP32-S3, AHT20, I2C/UART, Sensor Integration (PIR motion), RFID (MFRC522)
Technologies: Git & GitHub, PostgreSQL, Arduino IDE, Linux (Basic), Blynk IoT
Cybersecurity: Network Security, Protocol Analysis, Signature-based Malware Detection, Information Security Principles