

Rida S. Malik

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EDUCATION

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology

Topi, Pakistan

Bachelor of Science in Cyber Security

Expected June 2027

- Relevant Coursework: Data Structures and Algorithms, OOP, Information Security, Discrete Math, Probability and Statistics, Differential Equations and Linear Algebra, ICT ,Principles of Cybersecurity, Advanced Linear Algebra, DBMS, COAL

EXPERIENCE

Lumunate

Remote

Front-End Developer Intern

December 2024 – January 2025

- Revamped product dashboard using Next.js and Tailwind, optimizing load time by 40% and improving user experience.

10x Engineers

Lahore, Pakistan

Intern, Tech Evangelism & Outreach

July 2022 – October 2022

- Led a RISC-V Hackathon for 40+ participants, introducing them to open-source tools; fostered a culture of exploration and engagement.
- Designed high-impact promotional graphics for tech events, increasing engagement by 3x across digital platforms.

Cyber Security Lab Ambassador

GIKI, Pakistan

Faculty of Cyber Security

January 2025 – Present

- Represented the Cyber Department during outreach programs, translating complex lab projects into accessible demos for 100+ visiting students, fostering early interest in the field.

PROJECTS

LoRa-based Industrial IoT Security Framework | *Android, Cybersecurity*

Design Phase — February 2025 - Present

- Designing a secure LoRa-based communication framework to tackle industrial connectivity issues in Pakistan.
- Planning integration of encryption, authentication, and threat detection to mitigate MITM and ensure data integrity.
- Developing red/blue teaming simulation protocols to identify and patch security gaps before implementation.

Blockchain-based Secure Document Verification | *Blockchain, Postgres, JavaScript*

March 2025 – April 2025

- Developed a decentralized document verification system using blockchain technology to ensure tamper-proof document integrity.

PKI Infrastructure Lab | *Digital Certificates, SSL/TLS*

March 2025 – April 2025

- Simulated digital certificate generation, validation, and certificate chain traversal using OpenSSL.

Honeypot Deployment Research | *Network Security, Threat Intelligence*

September 2024 – December 2024

- Deployed both offensive and defensive honeypots to observe and document real-world attack patterns and methodologies.
- Analyzed attack traffic, identifying common exploitation techniques and threat actor behaviors in controlled environments.

WebReaper | *C++, Reconnaissance Tool*

November 2024 – December 2024

- Designed multithreaded web crawler capable of URL parsing and validation, laying groundwork for OSINT applications.
- Implemented RAII principles to ensure secure memory management and resource handling during reconnaissance operations.

ASCII Art Blackjack Game | *C++*

April 2024 – May 2024

- Built a console-based Blackjack game using OOP principles, visualized gameplay using ASCII graphics.

Crime Forecasting Model | *Python, Pandas*

April 2024

- Engineered a random forest model to classify crime types in Toronto, achieving 85% accuracy.

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, HTML/CSS, SQL

Tools & Frameworks: React.js, Next.js, Node.js, Tailwind CSS, Docker, Git, Wireshark, Metasploit, DroneKit, YOLOv5

Technologies: Linux (Kali, Arch, Ubuntu), Windows, Nmap, OpenSSL, Jupyter, VS Code, Adobe Suite

ACTIVITIES & LEADERSHIP

Team Swift (UAV Team)

Topi, Pakistan

Head of Fabrication, Outreach, and PR

September 2023 – Present

- Represented team at SUAS 2024 in Maryland, achieving 7th overall and 4th in mission demonstration, outperforming all top US teams.
- 2nd in PAK UAS 2025
- Led design and physical assembly and manufacturing of UAV components, coordinating with engineers to ensure structural integrity and flight performance.
- Headed outreach efforts to secure resources and increase visibility, doubling our external support and recognition.

AIIESEC in GIKI

Topi, Pakistan

Multiple Roles – Delegate Services, BD, Recruitment, Logistics

September 2023 – February 2025

- Led delegate servicing for Rising Leaders Summit 2024 and ensuring seamless communication.
- As Director CRM and Alumni in BD, built scalable outreach flows and revived dormant alumni ties
- Analyzed 300+ applications as Director of Spring Recruitment '24; improved scoring rubrics
- Participated in Rising Leaders Summit 2023 as an onsite delegate

Netronix (Gaming Society)

Topi, Pakistan

Frontend Developer, Junior Network Admin

September 2023 – Present

- Redesigned society's event portal for faster navigation and real-time updates, improving user retention.
- Managed internal network setups during inter-university LAN events, ensuring 0% downtime across sessions.