Hassan Khan

Full Stack Python Backend – Global Internship Applicant

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Summary

Cybersecurity student and aspiring Full Stack Python Backend Developer with hands-on experience in building scalable web applications. Proficient in Python, FastAPI, PostgreSQL, and RESTful APIs, with practical knowledge of web scraping and secure coding practices. Strong problem-solving skills and a keen interest in contributing to global internship projects while learning and applying modern backend development practices.

Education

Bachelor of Science in Cyber Security (CS)
Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI), Topi, Swabi
Expected Graduation: 2027

Focus on Cybersecurity, Python Backend Development, and Web Application Security. Completed projects in full-stack development and secure system design.

Skills

Programming Languages	Python	**Libraries**	Scrapy, Selenium, NumPy, Pandas
Backend Frameworks	FastAPI, RESTful APIs		
Frontend Framework	Next.js,React,js		
Databases	PostgreSQL, MongoDB		

Experience

CryptMail
Academic Semester Project
Nov 1, 2025 – Present

- **Engineered** a full-stack disposable email service using **FastAPI** (backend) and **Next.js** (frontend) with real-time dashboard and 1-hour expiry emails
- **Implemented CHaCha20-Poly1305 encryption** for secure email handling and **designed** the system for scalability and future premium features.

Intrusion Detection System (IDS)
Academic Semester Project
Jan 2025 – Apr 2025

- **Developed** a backend monitoring system using **Scapy** and full-stack dashboards with **FastAPI** and **Next.js**, including real-time alerts (SSE).
- **Secured** the backend using **JWT authentication**, demonstrating practical experience in **secure system design**.