Krish Kapila

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EDUCATION

Bachelor of Science in Computer Science – University of Saskatchewan (3.7GPA)   saskatoon,SK

Fall 2023-2027, Entrance scholarship

SKILLS

- **Languages:** Python, C, C++, Java, JavaScript
- **Tools:** Version control, NumPy, Bash Scripting, Matplotlib, Pandas
- **Others:** Word, PowerPoint, Canva, Adobe
- **Development:** React, Tailwind, CSS, Cloud, HTTP API's

PROJECTS

Python Port Scanner- *Python, Socket Programming, Networking, Cybersecurity, Vercel* | *visit repo*

- Built a **custom Python-based port scanner** capable of detecting open and closed ports across networked devices using the sockets.
- Implemented **multi-threaded scanning** for faster analysis of large IP ranges.
- Designed a **command-line interface (CLI)** for flexible user input, enabling IP/domain scanning.

Password Strength Checker- *Python, Security, Regex, k-Anonymity, Streamlit/FastAPI* *(working on this)*

- Built a **user-friendly web app** (no CLI) that rates password strength in real time with an accessible UI (mobile-responsive, keyboard + screen-reader friendly).
- Integrates a **privacy-preserving breach check** (k-Anonymity / HIBP): hashes locally and only sends the first 5 SHA-1 characters—**no plaintext ever leaves the device**.

SOC Mini-Lab- *Wazuh, Splunk, Sysmon, Virtual Machines, Security Monitoring* *(working on this)*

- Designed and configured a **mini Security Operations Center (SOC)** environment using **Wazuh and Splunk** for centralized log collection, monitoring, and alert generation.
- Configured **Wazuh agents** for real-time event forwarding, rule-based alerting.

EXPERIENCE

Math and Physics Instructor Jan 2024-Present

- Delivered personalized instruction in Math and physics for student from grade 5-12 in English and French.

Freelance Developer Jan 2024-Present

- Built and deployed custom websites and tools for clients and small buisnesses.