

ROCHAK RAJ SHARMA

Web Developer & Junior Cybersecurity Analyst



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Summary

BCA student focused on Web Development and Cybersecurity, with hands-on experience building web applications and security-focused projects. Practical knowledge of web security, networking, Linux, cryptography, and system diagnostics, with an interest in developing secure, reliable, and practical technical solutions.

Experience

World Computing Ltd.

Web Development & Content Management

Present

- Contributing to website redevelopment and modernization.
- Managing website content, digital assets, and resources.
- Using web technologies, Git, and development workflows.
- Troubleshooting issues and implementing UI improvements.

Projects

KAVACH Intelligence

Cybercrime Investigation & Case Correlation Platform

Python · FastAPI · SQLAlchemy · SQLite · JavaScript

- Developed a cybersecurity platform for managing cases, evidence, indicators, and investigation relationships.
- Implemented structured case and evidence management with a relational database.
- Built indicator extraction and case-correlation features for investigation workflows.

XYTRION

Security Tools Platform

JavaScript · Web Crypto API · REST APIs

- Developed a browser-based security toolkit featuring file encryption, password leak checking, hashing, and password analysis.
- Implemented cryptographic functionality using **AES-256-GCM, PBKDF2, and SHA-256**.
- Integrated security utilities into a unified web interface using JavaScript and browser cryptographic APIs.

Food World

Interactive Web Application

HTML · CSS · JavaScript · PWA

- Developed a responsive recipe application with dynamic search, filtering, and interactive user-interface features.

Research

Artificial Intelligence

Academic Research Paper

29 Pages · Qualitative & Secondary Research

- Conducted a 29-page academic study covering the history, evolution, and fundamentals of Artificial Intelligence.
- Examined machine-learning algorithms and models, AI classifications, and applications across different industries.
- Explored brain-computer interfaces, ethical considerations, and emerging trends in Artificial Intelligence

Technical Skills

Programming & Web: Python, C, JavaScript, HTML5, CSS3, SQL, REST APIs, FastAPI, Git, GitHub

Cybersecurity: Web Security, Authentication & Authorization, Password Security, Security Testing, Cryptography, Hashing, Encryption & Decryption, Cybercrime Investigation

Networking : TCP/IP, HTTP/HTTPS, DNS, IP & MAC Addressing, Ports & Protocols, Network Diagnostics, SSH

Systems & Administration : Command Line, File Permissions, Package Management, Process Management, Virtual Machines, Windows Troubleshooting

Security Tools: Burp Suite, John the Ripper, Hydra, Hashcat, Digital Forensics Basics, Evidence Handling, Indicator Extraction

Operating Systems: macOS, Linux, Windows

Databases: SQLite, SQL, SQLAlchemy

Education

Bachelor of Computer Applications (BCA)

Nepal Mega College — Affiliated with Tribhuvan University, Kathmandu, Nepal | 2026 – Present