

Prabin Shrestha

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EDUCATION

Thompson Rivers University

Kamloops, BC

B.S. in Computer Science

Expected Graduation: December 2024

Relevant Coursework: Database System, Calculus , Operating Systems , Data Structure and Algorithms, Networking, Linear Algebra, Advanced Web development, Cryptography, Computer Network Security, Artificial Intelligence, Quantum Mechanics, Prof/Ethical Issues Comp Science

PROJECTS

Blue Team Labs Online (BTLO) |

- Completed various labs and challenges that covered topics such as log analysis, digital forensics, network defense, and malware analysis, enhancing technical proficiency and analytical skills.
- Utilized tools and technologies such as [SIEM solutions, Wireshark, Volatility, etc.], gaining practical experience in their application for cybersecurity defense.

Network Traffic Visualizer |

- Developed a comprehensive tool integrating Wireshark for packet capture, Python for data processing, and Google Maps for visualization.
- Mapped source and destination IPs from .PCAP files, geolocated them, and visualized network traffic flows in real-time on Google Maps.
- Implemented features such as IP name display on Google Maps, IP address flagging, and terminal alerts for IPs detected outside the region.
- Enhanced the tool for anomaly detection by color-coding traffic lines based on continents, aiding in threat detection and streamlined investigations.

Xola Booking Automater App |

- Developed Node.js application to process Xola webhook data for managing bookings, integrated with PostgreSQL for Storing data and cost-effective hosting solution on Digital Ocean as a final project for our client Canadian Parks and Wilderness Society(CPAWS)
- Ensured compatibility with Saltcorn for frontend integration, facilitating smooth data handling, manipulation and display.
- Implemented robust error handling, duplicate prevention, database rollback and transactional consistency.
- Technologies: Node.js, Express.js, PostgreSQL, Saltcorn, Ngrok, Docker, Github.

CERTIFICATIONS

- Blue Team Labs Level 1 (BTL1)
- Network Defence Essentials (NDE)
- Digital Forensics Essentials (DFE)

EXPERIENCE

Tech Specialist

May 2023 - Still Working

London Drugs

Vancouver, BC

- Worked independently to advise clients on specific products and services throughout the Computer, Audio Video and Photo/Electronics departments.
- Stay up to date on new technology/products and attend product knowledge seminars.
- Provided comprehensive technical support to customers, including data transfer, computer troubleshooting, email password resets, mobile device setup, and account setup over phone and in store.

TECHNICAL SKILLS

Security Tools & Concepts: OWASP, API Security, IDS/IPS, VPNs, Splunk, Wireshark, Autopsy

Programming Language: Python, Java, JavaScript, Ruby, NodeJS, C, Powershell

Penetration Testing Tools : Nmap, BurpSuite, Nessus, Mimikatz

Networking: TCP/IP, Firewall Management, Network Security Monitoring , Packet Analysis

Other Skills: Linux, Office 365, Git