Gobinda Pandey

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Summary

Cybersecurity enthusiast focused on offensive and defensive security, with a passion for penetration testing and network security. Dedicated to solving real-world challenges and advancing cybersecurity practices, with a strong interest in AI/ML-driven solutions.

Skills

Cybersecurity Tools: Burp Suite, Cisco Packet Tracer, Kali Linux, NMAP, Metasploit, Wireshark

Machine Learning: PyTorch, Scikit-learn, Keras, NumPy, Pandas, TensorFlow, OpenCV

Programming Languages: Python, C, C++, Assembly

Database: MySQL, MongoDB

Miscellaneous: GNU Assembler, Arduino Uno, OpenWrt, LaTeX, Git

Education

St. Cloud State University	**Saint Cloud, MN**
MS in Information Assurance	*Aug 2025 – Present*
Tribhuvan University	**Pokhara, Nepal**
Bachelor's in Electronics, Communication, and Information Engineering	*Nov 2018 – Sep 2023*

Experience

Graduate Research and Teaching Assistant, Rochester Institute of Technology *Aug 2024 – May 2025*
Conducted research on timing attack vulnerabilities in microarchitectures and developed defense mechanisms. Supported teaching and mentoring for CSEC 622 (Side Channel Analysis).

Certifications

2024: Reactor Certification, Chainalysis

2024: Cyber Security Specialization, Coursera

2023: Google Cybersecurity Professional Certificate, Coursera

Projects

2025: **Crotonylation Site Prediction:** Developed a deep learning model to predict lysine crotonylation (Kcr) sites using pretrained language models (pLMs), integrating global protein context and local sequence windows with attention-based fusion for improved accuracy.

2025: **Intrusion Detection System (SUEE1 Dataset):** Built an intrusion detection system using machine learning on the 2017-SUEE dataset, applying feature engineering and training models (Random Forest, Decision Tree, MLP, Logistic Regression) with metrics like Precision, Recall, and AUC-ROC.

2024: **CNN-based Number Plate Recognition:** Developed an automated system for vehicle number plate recognition using CNNs and image processing techniques, enhancing image quality with super-resolution and utilizing bounding box segmentation for accurate character recognition.

Accomplishments and Awards

2024: Merit-based PhD scholarship, Rochester Institute of Technology.

2018: Full Scholarship for Undergraduate Studies, awarded by Nepal Government.