

# Gobinda Pandey

☎ (+1)-585-290-2209

✉ [gobindapandey223@gmail.com](mailto:gobindapandey223@gmail.com)

📍 Rochester, NY

🌐 [gobindapandey.com.np](http://gobindapandey.com.np)

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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

**Rochester Institute of Technology**  
*PhD in Computing and Information Sciences*

**Rochester, NY, USA**  
*2024–Present*

**Tribhuvan University**  
*Bachelor's in Electronics, Communication, and Information Engineering*

**Pokhara, Nepal**  
*2018–2023*

## Experience

**2024–2025:** Graduate Research and Teaching Assistant, Rochester Institute of Technology

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.