

# Gobinda Pandey

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📍 Rochester, NY, USA

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## RESEARCH INTERESTS

Network Security, IoT Security, Hardware Security, Machine Learning, Cyber Threat Intelligence, Vulnerability Detection, Side-Channel Analysis, Cryptography, Blockchain Analytics, Cloud Security

## PUBLICATIONS

- **Pandey, G.**, C. K. K., Lamichhane, N. and Subedi, U. (2023). CNN based System for Automatic Number Plate Recognition. *Journal of Soft Computing Paradigm*, 5(4), 347-364. doi:10.36548/jscp.2023.4.002
- **Pandey, G.**, Sunar, A., Yogi, J., Poudel, N. and Koirala, K. R. (2023). Electronic Health Record Management System using RFID: Improving Efficiency and Accuracy in Healthcare. *Journal of Information Technology and Digital World*, 5(3), 274-290. doi:10.36548/jitdw.2023.3.004
- Sunar, A., Lamichhane, B., **Pandey, G.**, Yogi, J. and Poudel, N. (2023). Trek Monitoring System: Enhancing Safety and Adventure in the Outdoors using Arduino UNO and NodeMCU. *Journal of Electronics and Informatics*, 5(3), 235-252. doi:10.36548/jei.2023.3.001

## EDUCATION

### Rochester Institute of Technology

Rochester, NY, USA

*PhD in Computing and Information Sciences*

*Aug 2024 – Present*

- **Relevant Courses:** Network Security, Deep Learning, Cyber Analytics and Machine Learning, Research Methods, Quantitative Foundations, Cryptocurrency/Blockchain Analytics

### Tribhuvan University (Institute of Engineering)

Pokhara, Gandaki, Nepal

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

*Nov 2018 – Sep 2023*

- **Relevant Courses:** Computer Network, Artificial Intelligence, Data Mining, Big Data Technologies, Wireless Communications, Embedded Systems, Computer Organization and Architecture, Information Systems

## EXPERIENCE

### Graduate Research and Teaching Assistant

Rochester, NY, USA

*Rochester Institute of Technology*

*Aug 2024 – Present*

- Researched exploring timing attack vectors on different microarchitectures and worked as a teaching assistant for the CSEC 622: Side Channel Analysis course.

## CERTIFICATIONS

### Reactor Certification, Chainalysis

Nov 2024

- Acquired knowledge and skills to analyze and trace transactions on the Bitcoin blockchain using the Chainalysis Reactor tool.

### Cryptocurrency Fundamentals Certification, Chainalysis

Oct 2024

- Gained insights into cryptocurrency fundamentals, including blockchain technology and cryptocurrency, and learned to utilize blockchain explorers to investigate Bitcoin transactions.

### Cyber Security Specialization, Coursera

Jan 2024 – Mar 2024

- Covered four courses on Introduction to Cyber Attacks, Cyber Attack Countermeasures, Real-Time Cyber Threat Detection and Mitigation, Enterprise and Infrastructure Security.

### Datacom Cybersecurity Job Simulation, Forge

Feb 2024

- Completed a job simulation focused on how Datacom's cybersecurity team helps protect its clients.

- Investigated a cyberattack and reported the key recommendations to improve the client's cybersecurity posture.

### **Tata Cybersecurity Security Analyst Job Simulation, *Forage***

Feb 2024

- Completed a job simulation involving identity and access management (IAM) for Tata Consultancy Services.
- Acquired expertise in IAM, cybersecurity best practices, and strategic alignment with business objectives.

### **Google Cybersecurity Professional Certificate, *Coursera***

May 2023 – Oct 2023

- Covered topics including Security Risk Management, Network Security, Linux and SQL tools, Threat Detection and Response, and Python-based Cybersecurity Task Automation.

### **Blockchain Specialization, *Coursera***

Feb 2023 – Apr 2023

- Obtained insights on the foundations of blockchain, smart contracts, decentralized applications (Dapps), and blockchain platforms.

## PROJECTS

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### **Trek Monitoring System: Enhancing Safety and Adventure in the Outdoors**

- Built a prototype gadget that updates trekkers about current location, humidity, weather forecast, and basic health information like body temperature, and heart rate.
- Published as a paper in the Journal of Electronics and Informatics.

### **RFID-based Electronic Health Record Management System**

- Developed an RFID-based system to securely record and access electronic health records.
- Published as a paper in the Journal of Information Technology and Digital World.

### **Agrobot: Multi-Function Agricultural Robot**

- Prototyped a remote controller-based machine to plough fields, sow seeds, and water plants.

## SKILLS

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- **Programming:** C, C++, Assembly, Python
- **Database:** MySQL, MongoDB
- **Tools:** GNU Assembler, Reactor, Arduino Uno
- **Misc:** OpenWrt, LaTeX, Git, Linux
- **Languages:** English, Nepali, Hindi

## HONORS AND AWARDS

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- **Scholarship/Assistantship for PhD**

Received a merit-based scholarship at RIT to pursue a PhD in Computing and Information Sciences.

- **Winner - Battle for Speed**

Achieved first position in a robotic racing competition organized by the Robotics Club, IOE, Tribhuvan University.

- **Full Scholarship for Undergraduate Studies**

Awarded by Nepal Government for securing rank in Tribhuvan University, Institute of Engineering entrance examination.