

SARVAGN PATHAK

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Education

New Jersey Institute of Technology (Newark, NJ)

Sep 2024 - May 2026

MS. Cybersecurity and Privacy

DA-IICT (Gandhinagar, India)

Nov 2020 - Jun 2024

B.Tech Information and Communication Technology

Awards: Cybersec Club Founder, Music Club President

Experience

DRDO, Ministry of Defence, Govt. of India (New Delhi, India)

Security research intern

Jan 2024 - Present

- Developed advanced malware generation techniques using GAN to create robust machine learning models.
- Engineered a custom GAN, leading to a forthcoming publication that showcases innovative methodologies.
- Enhanced contemporary detection models, achieving a 25% increase in accuracy.

DA-IICT (Gandhinagar, India)

Technical Assistant

Jun 2023 - Dec 2023

- Facilitated seamless comprehension in creating and managing labs, grading and helped in technical aspects of learning in Computer Networks

Research Intern

May 2023 - Jul 2023

- Authored a research paper on enhancing security through advanced protocols, resulting in a published work (refer to publication).

Vatsalya Education & Charitable trust (Rajkot, India)

Jun 2022 - Jul 2022

Full stack engineer intern

- Implemented React CURD with PHP API and MySQL to optimize database.

Skills

Bug Bounty hunter, BurpSuite, Wireshark, Metasploit, Linux, NetSim, Azure, Docker, Python, Javascript, Bash, Powershell, C/C++, SQL, React.js

Paper Published

- Analysis of a Thermoelectric Generator Module Based on Varying Intrinsic Input Parameters
IEEE 3rd Int. Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES'24)
- Addressing Single Point of Failure in Group Communication of Constrained Environments
International Conference on Applied Soft Computing and Communication Networks (ACN'23)

Achievements

NASA VDP-Hall of Fame ([Link](#))

WHO Ethical Hacker Hall of Fame ([Link](#))

2nd at Hackinfinity National Hackathon ([Link](#))

BU-Cert Hall of fame ([Link](#))

Projects

Digital Verification System | Cryptography, Javascript

• Engineered digital verification system integrating Teserract.js photo analysis and cutting-edge salting and hashing mechanisms with notable 30% decrease in unauthorized access incidents.

Price-Comparison website | Python(flask), Javascript

• Led a team of 10 to develop a Python-Flask powered price comparison website, proficient in web scraping with location based using Proxy Headers to get comprehensive store result.