

# Piyush Bhor

## Vulnerability Researcher - Waterloo, ON

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### SUMMARY

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I am an experienced security researcher with over 4 years of software development and cybersecurity expertise. Currently, I work as a freelance vulnerability researcher for Trend Micro's Zero Day Initiative (ZDI) and occasionally as an AI trainer at Outlier. I hold a Bachelor's degree in Information Technology and am certified in ISC2 CC.

### WORK EXPERIENCE

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#### Security Researcher - Trend Micro Zero Day Initiative, Canada.

April 2023 - Present

- Performed vulnerability research by performing static and dynamic code analysis to discover zero-day vulnerabilities in the Linux Kernel, HuggingFace's Transformers, CatBoost, Behave, and Pip.
- Developed proof-of-concept exploits by using Python, C, and Bash to emphasize the impact of the zero-day vulnerabilities.

#### AI trainer - Outlier, US

January 2024 - Present

- Reviewed and rated code generated by AI models by assessing code correctness, adherence to instructions, presentation, and other criteria to improve model accuracy.

#### Web Developer - SuccessR, India

June 2021 - January 2022

- Supervised and led a team of 3 to develop and test React components by providing guidance and oversight to complete project requirements on time.

### TECHNICAL SKILLS

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**Advanced** – Vulnerability assessment and exploitation, Exploit development (Python, C/C++ Bash), Reverse engineering of binaries and protocols, Penetration testing methodologies, Network security analysis (Wireshark, Metasploit, Burp Suite), Incident response and forensic analysis

**Intermediate** – Malware analysis techniques (static and dynamic), Threat intelligence gathering and analysis, Assembly language (x86, ARM), Creation and use of YARA rules, Implementation and management of SIEM tools (Snort/Suricata)

**Basics** – Linux system administration, Virtualization technologies (VMware, VirtualBox), Shell scripting, Containerization with Docker and orchestration with Kubernetes.

## EDUCATION

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<b>Postgraduate Certificate, Computer Application Security</b>	2024 - Present
Conestoga College, Waterloo, ON	
<b>Postgraduate Certificate, Computer Application Development</b>	2023 - 2024
Conestoga College, Waterloo, ON	
<b>Bachelor of Science, Information Technology</b>	2019 - 2022
Amity University, India	

## CERTIFICATIONS

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• ISC2 CC - Certified in Cybersecurity	2023
• ISC2: Zero Trust Architecture in the Cloud	2023
• ISC2: An Orientation to Cloud Native	2023
• ISC2: Security Risk Management in a Small to Medium Business Environment	2023

## REWARDS & RECOGNITION

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• <b>Seneca College</b> - Seneca 2023 Smart Cities Hackathon,	2023
• <b>Conestoga College</b> - IT Skills Competition 2023 (Web Design & Development)	2023
• <b>Amity University</b> - Valedictorian, Bachelor's Degree in Information Technology	2022
• <b>Amity University</b> - iPad 2020 - Innovative Project Application Development	2020

## PERSONAL PROJECTS

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- **A Polymorphic RAT** - A polymorphic RAT (Remote Access Trojan) written in Python.
- **AI Home Surveillance System** - Created using Python, the Twilio API, Raspberry Pi, and a custom-made circuit board for the IPAD 2020 competition.
- **Portfolio** - Developed using Next.js, React, and TailwindCSS to create a personal website with a minimal and modern design.
- **The Cannabis API** - Built with Node.js, Express, and MongoDB to create a REST API using a dataset from Kaggle.