

# Saurabh Kumar

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## PROFESSIONAL SUMMARY

Security Researcher II at Microsoft Edge Browser with 5+ years of experience in vulnerability research, application security, and exploit development. Specialized in web security, cloud security, client-side security, and secure code review. Proven track record discovering critical vulnerabilities in Adobe, LastPass, Dgraph, and Razor with CVE recognition.

## EXPERIENCE

### Security Researcher 2

March 2024 – Present

*Hyderabad, India*

*Microsoft*

- Conducting vulnerability research for Microsoft Edge Browser on the Vulnerability Research Team
- Building LLM-assisted agent tools for automated security issue detection in new features and code changes
- Developing fuzzers and leveraging CodeQL and Weggli for automated and manual security testing
- Performing vulnerability remediation and bug bounty triaging to enhance browser security

### Application Security Engineer (MTS-1/MTS-2)

June 2021 – March 2024

*Bengaluru, India*

*Nutanix*

- Performed security testing for Nutanix Core and SaaS products as part of Product Security SDL team
- Conducted secure code reviews, vulnerability assessments, and security testing across product lines
- Validated and analyzed security bugs from bug bounty program and customer reports
- Organized NutanixCTF22-23 by designing 40+ challenges across web, reversing, binary exploitation, blockchain, and cryptography categories

### Google Summer of Code - DefectDojo

May 2019 – August 2019

*Remote*

*OWASP Foundation*

- Contributed to DefectDojo open-source vulnerability management platform under mentorship of Aaron Weaver
- Developed custom security tool parser and resolved critical security vulnerability in the platform
- Implemented tool integrations including Cobalt, OpenSCAP, and Mozilla Observatory with comprehensive tests

## EDUCATION

### Indian Institute of Technology, Roorkee

2017 – 2021

*Roorkee, India*

## TECHNICAL SKILLS

**Security:** Vulnerability Research, Application Security, Web Security, Secure Code Review, Fuzzing, Exploit Development, Browser Security, OWASP Top 10

**Languages:** Python, C, C++, JavaScript, Bash, Assembly, Golang

**Tools:** BurpSuite Pro, IDA Pro, WinDbg, CodeQL, Weggli, GDB, Frida, Libfuzzer, Docker, K8s, AWS, GCP, SAST/AI-SAST

## ACHIEVEMENTS & RECOGNITION

**CVE-2021-21010, CVE-2020-22352, CVE-2020-24829:** Acknowledged by Adobe and GPAC for security vulnerability discovery

**Bug Bounty:** Discovered vulnerabilities in Razor, LastPass, Dgraph, and Adobe products

**Secretary, InfoSecIITR (2020-21):** Led IIT Roorkee's hacking club and coordinated security initiatives

**Problem Writer, BackdoorCTF 2019:** Designed challenges for international hacking competition at IIT Roorkee

**2nd Place - CSAW CTF 2019 Finals (India) —** Qualified for CyBRICS CTF 2019 Finals (Russia)

## CERTIFICATIONS

Cryptography I — Google Cloud Platform Fundamentals — AWS Fundamentals

Algorithmic Toolbox — Nutanix Certified Associate (NCA)