Kaustubh Rai

Security Engineer 1

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Summary

Cybersecurity specialist with a strong background in App Sec, Vuln Assessment, and Pentesting. Committed to continuous learning and growth, with active participation in industry events and CTF challenges

Experience

ContentStack   Feb 2024 - Present
Security Engineer 1

- Promoted to Security Engineer 1, for exemplary security reviews during critical periods, expertise in security practices and leadership in application security initiatives.
- Continuing to lead security audits and enhance web and API security protocols.

Associate Application Security Engineer   July 2022 - Feb 2024

- Conducted security testing encompassing **VAPT, SAST, DAST, SCA, and Manual Code Review**, enhancing the security posture of over **500+ RESTful and GraphQL APIs** across ContentStack's suite of services
- **Developed** and implemented an **automated API security testing** protocol that reduced the testing cycle time by 40% which improved detection efficiency by 50%.
- **Lead security auditor for 30+ applications** on ContentStack's platforms. Vetting and ensuring the secure rollout of features across Marketplace, Launch, and Automation Hub ecosystems.

Technical Consultant   Feb 2022 - July 2022

- Performance optimisations for ContentStack's CDN, achieving a 20% improvement in content delivery speed to global customers.
- Conducted **code reviews across 50,000+ LoC**, identifying and mitigating security vulnerabilities, which resulted in a 30% enhancement in platform security metrics.
- **Designed** and executed **performance load tests**, simulating up to 10x normal traffic, which helped identify and resolve critical performance bottlenecks, ensuring 99.9% uptime.

Education

Univerisity of Mumbai   2022
Computer Engineering   BTech

Projects

Rahasya - Docker

Secret Scanning Automation Tool

IMAGE AUTHENTICITY CHECKER — Python, TensorFlow, KERAS

ML image verifer to detect alterations or filters applied to images and verify GPS location

No_Contact_WhatsApp — AWS Lambda, Serverless, Python, Telegram Bot

Serverless Telegram bot on AWS Lambda for messaging on WhatsApp without saving contacts

Skills

Cloud & Monitoring: AWS WAF, Inspector, Data Dog, Splunk, SentinelOne
● ● ○ ○ ○

Security & Pentesting: Web/API Hacking, OWASP Top 10, Automation
● ● ● ● ○

DevOps & Tools: Linux, Docker, Kubernetes, VMware, Git, Postman, BurpSuite
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Development & Scripting: Python, Bash, PowerShell MongoDB, JavaScript
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Professional Development

PortSwigger Academy

Actively solving labs with detailed blog documentation of each lab.

Cybrary

Network Fundamentals, Comptia A+ 901AA, Comptia Network+

TCM Security

Practical Ethical Hacking, Practical API Hacking,

APISEC University

API Pentration Testing, OWASP API Security Top 10 and Beyond, API Security for PCI Compliance

Awards

1st Place in CypherHack Security Hackathon
FCRIT

made a Remote Automated Vulnerability Assessment tool using a Pi Device

2nd Runner up in Bug Bounty out of 50 teams
ContentStack

45th position out of 500 teams
RESETHACKER

12 hour RESTCON CTF

Publications

CVEdB

in International Journal of Advanced Research in Technology and Engineering