

# Kaustubh Rai

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

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## EDUCATION

### B.E - COMPUTER ENGINEERING ST. JOHN COLLEGE OF ENGINEERING AND TECHNOLOGY

09/2017 - 05/2022

Palghar

## WORK EXPERIENCE

### Associate Application Security Engineer ContentStack

07/2022 - Present

#### Achievements/Tasks

- Conducted robust 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 ContentStack

02/2022 - 07/2022

#### Achievements/Tasks

- Led performance optimizations for ContentStack's CDN, achieving a 20% improvement in content delivery speed to global customers.
- Conducted code reviews across 50,000+ lines of code, 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.

## PROFESSIONAL DEVELOPMENT

### PortSwigger Academy

Actively solving labs with detailed blog documentation of each lab.

### Cybrary

Network Fundamentals, CompTIA A+ 901AA, CompTIA Network+

### TCM Security, APISEC University

Practical Ethical Hacking, Practical API Hacking, API Security for PCI Compliance

### TryHackMe

Top 1 % of 3M+ users

## 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

Development & Scripting: Python, Bash, PowerShell, MongoDB, JavaScript

## PERSONAL PROJECTS

### CVEdB (Common Vulnerabilities and Exploits Database) - Django

- Platform to explain vulns, exploits, mitigation strategies, and added threat intelligence info, such as current risk levels, exploit prices, and prevention tips for SDLC

### IMAGE AUTHENTICITY CHECKER — Python, TensorFlow, KERAS

- Created an ML-based image verifier to detect alterations or filters applied to images and verify GPS location

### No\_Contact\_WhatsApp — AWS Lambda, Serverless, Python, Telegram Bot

- Developed a serverless Telegram bot on AWS Lambda for messaging on WhatsApp without saving contacts

## ACHIEVEMENTS

### 45th position out of 500 teams

12 hour RESTCON CTF by RESETHACKER

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

by ContentStack

### 1st Place in CypherHack Security Hackathon

by FCRIT - made a Remote Automated Vulnerability Assessment tool using a Pi Device

### CVEdB

Published a paper in International Journal of Advanced Research in Technology and Engineering

## INTERESTS

Volunteering, Blogging, Learning languages, Travel, Sports