

SHUBHAM GHOSH

Vulnerability Analyst II

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CAREER OBJECTIVE

Cybersecurity professional with 5+ years of experience in penetration testing and vulnerability assessment. Currently a Vulnerability Analyst II at Mastercard, specializing in securing web/mobile applications and APIs. Previously worked with Bharti Airtel and TCS. Certified in GIAC GPEN, CRTP, CEH (v11 Practical), Azure AZ-900, SC-900, and AppSec Practitioner. Passionate about CTFs and advancing cybersecurity practices.

EXPERIENCE

MASTERCARD , Role : Vulnerability Analyst II

January, 2024 - Current

- Experience on conducting penetration testing on Web applications, APIs and Mobile Applications.
- Performed End to End Assessments for various public-facing and internal applications.
- Consulting the developers with best security measures and help them prioritize and fix the vulnerabilities efficiently.
- Performed pentests based on PCI Standards.
- Was a part of CTF competition hosting team for Mastercard employees and also participated and was ranked 4th in the competition.
- Gave technical presentation on Attacking JWT Tokens to Corporate Security Team.

BHARTI AIRTEL LIMITED , Role : Information Security Analyst

August, 2022 - January, 2024

- Conducted Vulnerability Assessment and Penetration testing on Web, API, and Mobile applications on Internal and Customer facing applications.
- Performed End to End Assessments for various public-facing applications like Wynk Music, Airtel Thanks App, etc, and also for internal applications.
- Consulting the developers with best security measures and help them prioritize and fix the vulnerabilities efficiently.
- DevSecOps - Experience on Coverity and BlackDuck on triaging the bugs flagged by the tool. Explained the developers' impact of issues and helped them with the fix.
- Gave session on API Security to different teams.

TATA CONSULTANCY SERVICES , Role : Security Analyst

Feb, 2020 - August 2022

- Experience on Vulnerability Assessment, Penetration testing of Web, API and Mobile applications.
- Conducted Vulnerability Analysis and Penetration Testing of E-commerce Apps, Food Delivery app, Healthcare App and Airline App.
- Consulting the clients and developers with best security measures and help them prioritize and fix the vulnerabilities efficiently.
- Conducted Secure Code Review using Fortify.
- Trained the new joiners of the team on Web Application Security Testing.
- Gave sessions in the organization on various topics like weak cryptography and account takeover, SSRF.

TECHNICAL SKILLS

- **Application Security** - Focused on Application Security for Web applications, APIs and Mobile Applications (Android and iOS) ensuring robust protection and resilience against cyber threats.
- **Network Security** - Expertise in Network Security, implementing advanced protocols and strategies to safeguard digital assets and infrastructure against evolving cyber threats.
- **NMAP** - Proficient in utilizing Nmap for network discovery and mapping purposes..
- **Nessus** - Proficient in utilizing Nessus for scanning and finding vulnerabilities in the internal networks .
- **BurpSuite Professional** - Skilled in utilizing Burp Suite for web application security testing and vulnerability assessment.
- **MOBSF** - Experienced in leveraging MobSF for mobile application security testing and analysis.
- **Frida** - Proficient in utilizing Frida for dynamic instrumentation and analysis of software applications..
- **Code analysis and SCA (Coverity, BlackDuck)** - Proficient in using Blackduck and Coverity for false positive analysis and managing projects.
- **Linux** - Proficient in using penetration testing distros like Kali Linux and Parrot OS of performing pentests.
- **Security Standards** - OWASP TOP 10 of Web, Mobile and API, SANS TOP 25.
- **Experience in other tools** - Jadx, apktool, Dex2Jar, Magisk, Postman, Soap UI, Insomnia
- **Project Management tools** - Atlassian Jira and Archer.

EDUCATION

Jain College <i>Bachelors of Computer Applications - Percentage - 80.2%</i>	Aug,2016 – Sept,2019 <i>Jamshedpur, India</i>
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CERTIFICATIONS

GPEN - GIAC Penetration Tester <i>SANS</i>	Nov,2024 to Nov'2028 <i>Certificate No: 19776</i>
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CRTP - Certified Red Team Professional <i>Altered Security</i>	July,2025 to July,2028 <i>Certificate No: ADLID12316</i>
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Certified Ethical Hacker - Practical <i>EC COUNCIL</i>	Jan,2022 to Jan,2025 <i>Certificate No: ECC8369521704</i>
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Certified Ethical Hacker - CEH V11 <i>EC COUNCIL</i>	June,2022 to June,2025 <i>Certificate No: ECC1592763840</i>
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Microsoft Azure Fundamentals AZ 900 <i>Microsoft</i>	Oct,2021 <i>Certificate No: H994-1292</i>
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Microsoft Certified: Security Fundamentals SC-900 <i>Microsoft</i>	Dec 2022 <i>Certificate No: I522-0513</i>
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ACHIEVEMENTS

- Secured 3rd Rank and 10th Rank in Best Ethical Hacker Contest in two consecutive years - 2020, 2021 conducted by TATA Consultancy Services.
- Acknowledged by NCIIPC for reporting multiple Security Vulnerabilities on the Indian government websites.

Personal Details

- **Date of Birth** : 14th July, 1998.
- **Languages Known** : English, Hindi, Bengali.