SUBHAY ROY CHOWDHURY

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ABOUT ME

Subhay is a Cybersecurity researcher with a strong track record in vulnerability assessments, manual source code review ,penetration testing, and securing cloud environments with expertise in AWS, Azure, and GCP security. Specializing in application security and passionate about machine learning, threat intelligence, system design and hardware security. Experienced in leveraging DevOps practices to enhance security. Proven ability to identify, mitigate, shift left and resolve vulnerabilities, driving significant improvements in security posture and risk reduction.

SKILL

- Penetration Testing
- AWS/Azure/GCP/Oracle
- Software Engineering(C, C++, Python, Bash, C#, JS
- Android and IOS pentesting
- Power user of Wireshark , Burpsuite, Jira, Splunk, Terraform
- Machine Learning and Data Science
- Hardware and IOT Pentesting
- System Design and Cloud Configuration Review
- Secure Code Review(Manual and Automated)
- Network and AD Pentesting and Phishing Simulation
- Tooling with Pytorch, Tensorflow, Scikit learn, Pandas, Rag, Langchain
- Hardware and IOT Pentesting
- Docker and Kubernetes Security
- LLM , AI Engineering and Testing
- DevsecOps , DatasecOps, NetsecOps. MLOps
- Malware Research and Reverse Engineering
- Prompt Engineering, Web Assembly fuzzing

EDUCATION

KALYANI UNIVERSITY , WEST BENGAL, INDIA
Bachelor of Arts , 2013

GOV. ITI
DIPLOMA IN HARDWARE AND NETWORKING

CERTIFICATION

AZ-500 MICROSOFT CERTIFIED AZURE SECURITY ENGINEER
9F0F3284C63125E0

CEH PRACTICAL - CERTIFIED ETHICAL HACKER - ECC5317962408

EWPTX - WEB APPLICATION PENETRATION TESTER EXTREME - 111766021

MCRTA - MULTI CLOUD RED TEAMING ANALYST - 66BC71C25579BDC57C6A63202

WORK EXPERIENCE

AUJAS CYBERSECURITY - Senior Consultant **2024-NOW**

Having opportunities to work with LLM and AI penetration testing project. Trained and fine tuned AI models for augmenting boiler plate jobs, Participated with Hardware Pentesting projects and leveraged vulnerabilities in JTAG, SWD protocols and contributed in Product Security Life Cycle. Worked with Source Code Review projects and delivered with high efficiency.

- Leading team for mentoring with cutting edge skills and modern security operations.
- Actively researching through WAF evasion technique and browser security controls

Capgemini - Process Associate **2022-2024**

Regularly engaged in application security operations, including code reviews, SAST, DAST, SCA, and penetration testing, leading to a 20% increase in threat visibility and a 45% improvement in product security posture within the first year.

- Successfully managed and secured multi-cloud environments using Defense in Depth and Site Reliability Engineering (SRE) practices, collaborating with cross-functional teams to ensure optimal performance
- Continuous monitoring with Datadog, Graffana for proactive issue resolution, contributed to improved client acquisition and retention rates

WIPRO- Senior Associate **2019-2022**

Collaborated with developers to implement secure coding practices, resulting in the identification, management, and patching of vulnerabilities to address security misconfiguration.

- Set up and managed firewalls, overseeing on-premises network security. Conducted threat intelligence by analyzing appliance logs within a SIEM platform to identify potential security threats
- Participated with 100+ Black box web app pen testing projects and delivered within deadline and increased 4X productivity with automation.

IMERIT- ITES Executive **2017-2019**

Responsible for Threat Simulation and system administration in the Active Directory environment,Ubuntu Server by supervising vital system crucial tasks and compliance auditing.

- Efficiently handled virtualization systems like VMWare , ESXi . Skilled in Unix server setups, while managing the deployment of Group Policy and Risk Advisory services.

Synotrix- Jr. Network Engineer **2016-2017**

Exhibited proficiency in TCP/IP, OSI model, and the implementation of VPN, Wi-Fi, PKI, SSL, SSH, SMTP, and FTP across the network infrastructure

- Proficient in routing and switching technologies with hands-on experience in configuring OSPF, BGP, NTP, NAT, and STP protocols

PROJECTS

DREAMTESTAI

https://github.com/findthehead/DreamtestAI

DreamtestAI is an AI-powered secure code review tool that scans your codebase using modern LLMs and generates vulnerability reports in Markdown, JSON, or CSV format. Ideal for security analysts, auditors, or developers looking to automate secure code review.

BYOMKESH

https://github.com/findthehead/Byomkesh

An all-in-one frontend security tool for downloading, beautifying, and scanning for secrets.

PENTESTPAYLOAD

https://github.com/findthehead/pentestpayload

A KNN algorithm based Penetration Testing Payload search and modification engine with a nice red FLASK based GUI