

Mohit Aphale

Address: Bangalore, India

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Date of Birth: 29 November 1991

Portfolio: <https://mohitaphale.dev/>



Professional Experience

May. 2020 - Present

Bangalore

Cybersecurity Expert

Elektrobit Automotive Pvt Ltd

Location Bangalore, India, July 2024 - Present

Location Braunschweig, Germany: July 2022 – June 2024

location Bangalore, India: May 2020 – June 2022

Cybersecurity Engineering

Establishing cross departmental secure development, technical roadmaps and technology adoption oversight. Providing support to product teams with design and development of secure applications, systems and software for automotive controllers and supported infrastructure which includes Web Application, APIs.

- Implement and drive cybersecurity concepts at the vehicle/component level in accordance with ISO 21434, including TARA, cybersecurity goals, and requirements definition.
- Define and execute security verification activities, such as secure code reviews (SCA, SAST, DAST) and Security testing.
- Implement and develop strategies for secure software development (SDLC) process to manage risks and ensure robust cybersecurity deliverables.
- Develop and enforce security development guidelines to strengthen product security.

Security Testing and Vulnerability Assessment

- Established dedicated lab environment for fuzz testing on Applications, protocols, vehicle modules like Ethernet, WIFI, Bluetooth, USB, etc ... and SW components.
- Analysing reports from fuzzing tools, zero-day, vulnerabilities from penetration testing and providing remediation strategies for the same
- Attacks on individual ECU functions such as OTA software updates, Web applications, in-car apps/services and more.
- Develop tools for automation for Security Testing and Vulnerability Management.

Sept 2017 – Dec 2019

Bangalore, India

Embedded Security Engineer

Visteon Corporation

Roles and Responsibilities

- Performed Penetration Testing and Vulnerability Assessment on Automotive devices
- Responsible for executing TARA, defining cybersecurity goals and Cybersecurity concepts

- Responsible for designing Cybersecurity plan and test cases for performing security testing
- Performed static code analysis, port scanning, fuzz testing.

April 2015 – May 2017

Bangalore, India

Security Consultant

Aujas Networks

Roles and Responsibilities

- Perform Secure Code review for applications (Thick Client, Web and Android applications)
- Vulnerability Assessment and Penetration testing of applications by manual and automated approach.
- Attacks like Buffer Overflow, SQL injection, XSS, Deserialization on web applications, binaries, host

March 2014 – Jan 2015

Bangalore, India

Product Engineer

HandsFree Networks

Roles and Responsibilities

- Vulnerability Assessments and penetration testing on Nanoheal backend applications and Agent.
- Perform Secure Code Review for web application
- Training developers on Secure Code guidelines and methodologies.

Education

Aug 2013 – Feb 2014

Bangalore, India

Post Graduate Diploma in Cyber Security

Centre of Development in Advance Computing (C-DAC)

2009 – 2013

Bhopal, India

Bachelor of Engineering

LNCTS College of Engineering

Skills

Programming Language and Tools	Python, JAVA, C, FlawFinder, Kali Linux, Wireshark, Blackduck, Fuzzing tools (libfuzz, Coverity), Klocwork
Frameworks / Standards	Vehicle Security Standards ISO 21434, SAE J3061 OWASP TOP 10, SANS TOP 25, WASC 2.0, CVE/CWE, CERT
Subject of Interest	Secure by Design, Cryptography, Penetration Testing Threat Analysis and Risk Assessment (TARA), Application Security
Professional Certificates	Offensive Security Certified Professional (OSCP)

Languages

English, Deutsch (Beginner)

Hobbies

Road Cycling, Trekking, Table Tennis and Market Trading