

# Melvin Varkey

APPSEC · DEVSECOPS · INFORMATION SECURITY · AZURE

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## Professional Summary

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- Cybersecurity professional with 4+ years of experience in application security testing, vulnerability analysis, cloud, and network security. Passionate, devoted, and committed to secure client data and assets. Motivated in improving problem-solving skills and dedicated to constant learning. Currently, in a cybersecurity senior consultant role where I help clients to identify the gaps and secure their application, data, network and infrastructure, this will be contributing to the overall success of the organization. I also possess:
  - Proficiency in scripting languages such as Python, PowerShell and Bash
  - Experience in security tool-kits such as Kali Linux, Metasploit and Burp Suite Pro
  - Proficient in reporting technical information to the executive/management terminology
  - Exceptional project management capability to manage multiple projects simultaneously.
  - Leadership skills by serving as a project lead of a team of 5-10 members

## Experience

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### EY (ERNST AND YOUNG LLP)

Bengaluru, Karnataka

#### SENIOR CONSULTANT(CYBERSECURITY)

Aug. 2016 - Present

- Conducted Vulnerability Assessment and Penetration Testing of Web applications and infrastructure for multiple clients across various domains (Telecommunication, Manufacturing, Consumer goods, Multimedia, Health care etc.) and submitted detailed reports about the vulnerabilities, its impact in business and appropriate recommendations
- Conducted Secure Configuration Review of Several technologies like Firewalls (palo alto), Switches, Wi-Fi Routers, Windows and Linux based Operating Systems etc. and prepared individual reports
- Conducted penetration testing of mobile applications based on iOS and Android for various clients
- Prepared security audit automation scripts in Python and PowerShell

### MICROSOFT

Hyderabad, Telangana

#### SECURITY CONSULTANT(EY CONTRACT)

Nov. 2018 - Present

- Conducted security assessments of several internal and external web applications. These assessments includes Threat modelling and Design review, Source code review of web applications (ASP.NET, C#, TSQL, Python etc.), Security Testing, Deployment / config review
- Submitted several security assessment reports which quantify and communicate the risk appropriately to the clients and developers
- Assisted and advised developers, project managers to mitigate security gaps/bugs like SQL injection, Input validation, Authentication and Authorization related issues etc.
- Performed analysis of several DAST and SAST tools to identify and minimize false positives
- Conducted analysis of DAST and SAST tools like Burp suite pro, OWASP ZAP, Netsparker, Tinfoil etc. to integrate with DevOps pipeline
- Contributed and developed several Internal Team communication sites in Sharepoint, Power BI dashboards and authored several security control checklists

## Achievements

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- Awarded “Cybersecurity - Bronze” badge from EY. *See credential*
- Received “KUDOS” from EY Partner for exemplary performance
- Received “Client Champion” award from EY for always exceeding client expectations
- Earned “Certification of Appreciation” from Intel for working through Intel’s responsible security disclosure process
- Earned “Friendly Hacker badge” from Khan Academy for reporting a vulnerability in their web application

## Key Competencies

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- Security testing of Web applications, API, Microsoft Dynamics 365, Thick-client applications, Mobile application (IOS and Android), DevSecOps
- Experienced in maintaining security of Azure cloud components
- Threat Modelling and design review of Azure and On-Prem solutions using Microsoft Threat modelling tool
- Source code review (ASP.Net, C#, Python)
- Passionate about secure software development life cycle and DevSecOps
- Expertise in identifying OWASP Top 10 vulnerabilities, threat classifications and SANS Top 25 vulnerabilities. Experienced in cyber Security information gathering / OSINT from appropriate tools, online sources and databases.
- Comfortable to adapt new technology, challenges and changing environment
- Strong team player and leadership qualities

## Technical Skills

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### SECURITY TOOLS

- Manual Testing: Burp Suite PRO, Postman
- Automated Scanners: Semmler scanner, WebScout, CredScan, Fortify, Nessus, Acunetix, Nikto, Wapiti, SqlMap, Nmap
- Mobile Testing: Android SDK, Genymotion Emulator, Java Decompiler, Dex2Jar, Drozer, Appie, ADB commands, Busybox
- Wireless Testing: Wireshark, Fern Wifi Cracker, Aircrack
- Fuzzers: AFL, Wfuzz

### OTHER TOOLS

- OS / Environments: Kali OS, Windows and Linux
- Web application development: PHP, ASP.Net, HTML, JavaScript, Django, Python, MySQL, Oracle DBMS, Microsoft Sharepoint
- Office Tools: Microsoft Excel, Powerpoint, Word, Power BI, LaTeX
- Programming Languages: Powershell, Python, ASP.NET, C#, JavaScript, RUST-Lang etc.

## Education

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### M.Tech in Cyber Security Systems and Networks

**AMRITA UNIVERSITY, Coimbatore**

AMRITA VISHWA VIDYAPEETHAM, AMRITAPURI, KERALA

*August. 2014 - July. 2016*

- Notable Coursework: Operating System and Security, Advanced Computer Networks, Cryptography, Advanced Security of Networked Systems, Cloud Security, Security of Cyber Physical Systems, Database and Application Security
- Electives: Android Internals and Security, Practical Capture the Flag Exercises
- Fluency: Python, Android Programming, HTML, Linux Commands

### B.Tech in Computer Science and Engineering

**MAHATMA GANDHI UNIVERSITY,  
Kottayam**

AMAL JYOTHI COLLEGE OF ENGINEERING, KANJIRAPPALLY, KERALA

*Mar. 2009 - July. 2013*

- Notable Coursework: Data structures, Algorithms, Computer Networking, Computer Graphics, Web Application Development