Krishna Chaitanya Telikicherla

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# Summary

* 10 years of IT experience, which includes 7 years in application security and 3 years in development
* Currently working as Security Consultant at Microsoft India Global Delivery, Hyderabad.
* Has expertise in Microsoft SDL process, which includes Threat Modelling, Security Design reviews, Security Code reviews, Security Testing and Security Deployment reviews.
* Tech blogger and tech speaker. Awarded Most Valuable Professional (MVP) award by Microsoft for 5 consecutive years (2010-2014) for my contributions to technical communities
* Authored research papers, white papers, patents, magazine articles on web security

# Education

* M.S by Research, Computer Science – IIIT, Hyderabad

Thesis: Mitigating Web-borne Security Threats by Enhancing Browser Security Policies [[Link](http://web2py.iiit.ac.in/research_centres/publications/view_publication/mastersthesis/407)]

# Current responsibilities

I have been working as a Security Consultant at Microsoft India Global Delivery since June 2014. In my current role, I perform the following activities:

* Performing comprehensive security assessments
* Assisting application teams in Threat modeling
* Performing Security Design Reviews
* Performing Security Code Reviews
* Performing Security Testing
* Reporting the security issues to application teams in a timely manner
* Conducting regression checks on the fixed issues
* Interacting with offshore/onsite teams and customers
* Developing tools that ease identifying security issues in code
* Exploring cutting edge technologies and analyzing their corresponding security controls

# Technical Skills

* Good understanding of security aspects of the **web platform** – HTTP, JavaScript security.
* Good understanding of modern **authentication protocols** such as OpenId Connect, OAuth etc.
* Experience in building applications in **Microsoft stack** - .NET framework, C#, ASP.NET, Azure
* Experience in identifying **security vulnerabilities in code** manually, and recommending fixes.
* Experience in **building security tools** for automating security reviews.
* Experience in **cloud security assessments**, specifically on Azure based solutions
* Experience in **IoT security assessments**, specifically on solutions built using Azure IoT suite
* Experience in using various **security tools** – Burp Suite, Nessus, Fiddler, FxCop, Cat.Net etc.

# Certifications

* 70-532 - Developing Microsoft Azure Solutions

# Automation Tools

The following are the automation tools I have built at Microsoft, to optimize security reviews:

* **SecSharp**: This is a static code analyzer built using Roslyn APIs. It helps in identifying common insecure coding patterns in ASP.NET MVC 5 and ASP.NET Core web frameworks.
* **IIS Deployment Analyzer**: This utility uses IIS Microsoft Web Administration API and scans websites for security configurations in compliance with CIS benchmarks for IIS.
* **SQL Deployment Analyzer**: This utility runs SQL queries even on remote SQL servers and scans for security configurations in compliance with CIS benchmarks for SQL.
* [SDL Knowledge Framework](https://skf.azurewebsites.net/) **(SKF):** This is a web portal which provides secure coding guidelines to developers. SKF is built such that its content can be used to generate templates for Microsoft's Threat Modeling Tool 2016. I have presented this in [Microsoft TechReady 24](https://techreadytv.com/TR24/session?sCode=SECCT202) conference.

# Research Publications

Below is the list of papers I have published with my peers, along the lines of my master’s research. Details can be found at: <https://scholar.google.co.in/citations?user=NmNq9vsAAAAJ&hl=en>

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| Title | Year |
| Mitigating Browser-based DDoS Attacks using CORP | 2017 |
| Mitigating Web-borne Security Threats by Enhancing Browser Security Policies | 2016 |
| Enabling the development of safer mashups for open data | 2014 |
| CORP: A Browser Policy to Mitigate Web Infiltration Attacks | 2014 |
| Alloy model for Cross Origin Request Policy (CORP) | 2013 |
| Anatomy of Cross Site Scripting (XSS) Vulnerabilities | 2013 |
| Security Concerns in New User Experience Enhancing Features of HTML5 | 2012 |
| Analysis and detection of modern spam techniques on social networking sites | 2012 |
| Role of mashups, social networking platforms and semantic in revolutionizing web integration: Key insights and enterprise implications | 2011 |

# Community Activities

* Core member of Hyderabad chapter of NULL, India’s most active security community - <https://null.co.in/chapters/6-hyderabad>
* Core member of Microsoft User Group Hyderabad (MUGH) - <http://www.mugh.net/>
* Contributor to OWASP Hyderabad chapter

Regular tech blogger, speaker at user group meets and tech conferences

# Speaking Engagements

* Speaker at 25+ occasions at professional tech events organized by Microsoft user group, OWASP and NULL security chapters on topics related to web security (2011-2017)
* Gave tutorials at reputed conferences such as SRII ICSEM 2012, ACM Compute 2011 and 2013.

# Rewards and Recognition

* “Best InfoSec Consultant” – Information Security – Microsoft Global Delivery, H1 2016
* “Best Innovator” – Information Security - Microsoft Global Delivery, Technovation 2015
* “Director Special Award” – Information Security - Microsoft Global Delivery – Jan 2015
* “Microsoft Most Valuable Professional (MVP)” award for five consecutive years - 2010, 2011, 2012, 2013, 2014 for my contribution to technical communities.
* “Best project mentor” for mentoring interns in “Instep 2012” - Infosys' flagship internship program
* “Award for Excellence (AFE)” 2011 at Infosys under “Tech champion” category.
* “Most Valuable Player” award at Infosys for 2010.
* “On the spot” award for Q1 and Q3 of 2009 and Q4 of 2010 for my technical contributions.
* “Most promising fresher” award at Infosys for Q1, 2008.

# Mentoring

* Mentored several Springboard interns and NEO interns at Microsoft since 2015
* Mentored Junior Research Associates and interns from U.S universities at Infosys labs
* Mentored B. Tech students at IIIT-Hyderabad for their BTP (B-Tech Projects).

# Other Interests

* I am a Chess enthusiast, trained by rated Chess professionals for 4 years (2003-2007). I have won several district level Chess tournaments, and regularly play online blitz games.
* I am a strict Yoga practitioner, practicing the art of Yoga asanas and pranayama for 8+ years.
* I read books on self-help & philosophy. I am proud of my small but growing library at home.