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| **SRIKANTH GOUD MANDALA** | **🖳** [**linkedin.com/in/srikanth-goud-mandala-79304959**](http://www.linkedin.com/in/srikanth-goud-mandala-79304959) |
| **📧** [**smandala@andrew.cmu.edu**](mailto:smandala@andrew.cmu.edu) **/** [**srix01@gmail.com**](mailto:srix01@gmail.com) |
| **🕾 412-636-2689** |

**EDUCATION**

**Carnegie Mellon University,** H. John Heinz III College, Pittsburgh, PA, USA.  **Expected: May 2017**

**Master of Science, Information Security Policy and Management-(MSISPM), 3.81 GPA (Distinction)**

**Jawaharlal Nehru Technological University,** Hyderabad, TG, India. **Sep 2009 – May 2013**

**Bachelor of Technology, Electrical & Electronics Engineering, 3.72 GPA**

**PROFESSIONAL EXPERIENCE**

**Amazon.com Services Inc.**, Seattle, WA, USA **Jul2017-Present**

**Security Engineer II**

* Responsible for providing guidance and assistance to developers to make secure design choices to help protect applications and customers. Additionally, performed source code reviews using manual and automated tools.
* Design and develop tools to automate security detection at scale and surface risks to be fixed throughout SDL.
* Assist in responding to critical security incidents and provide guidance and design consultations on how to mitigate them.
* Trained ~150 internal employees on security review process, thereby increasing the presence of security certifiers to review applications

**Carnegie Mellon University,** Pittsburgh, PA, USA.

* **Teaching Assistant:** Intro to Information Security Management, Organizational Design & Implementation **Aug 2016-Dec 2016**
* **Teaching Assistant:** Network Security Analysis **Aug 2015-Dec 2015**

**Deloitte & Touché LLP,** San Francisco, CA, USA. **Jun 2016-Aug 2016**

**Cyber Risk Summer Intern**

* Created Audit & Accountability design for State of Colorado. Defined FTI and system boundary, analyzed log sources, designed SIEM use cases to be compliant with MARS-E v2.0 and IRS Publication 1075 standards.
* Performed application penetration testing for State of Colorado to detect OWASP Top 10 vulnerabilities and get them fixed.

**Deloitte & Touché AERS India Pvt. Ltd (Deloitte USI),** Hyderabad, TG, India. **Jul 2013– Jul 2015**

**Associate Solution Advisor – Vigilant Cyber Threat Management & Deloitte Cyber Intelligence Center (CIC)**

* Worked extensively on Application Security, Secure Code Review and Incident Response. Ensured risk reduction by testing ~20 web applications for OWASP Top 10 and SANS Top 25 vulnerabilities using manual and automated techniques to provide remediation.
* Developed and tuned client specific Threat Use Cases (TUCs) leveraging HP ArcSight. Performed hunt analysis and carried out L1/L2 monitoring activities. Investigated critical and malicious events. Acknowledged and appreciated by **Partner** and **Director** for my contributions to Deloitte CIC and received **spot award.**
* Performed secure code reviews for leading global banking and financial firms. Automated scanning of source code (HP Fortify), performed risk-based prioritization of application vulnerabilities, false-positive analysis and assisted in remediation of vulnerabilities.
* Trained ~25 Deloitte new hires on Cyber Intelligence Centre activities, operations and organized C|EH certification event for employees.

**CERTIFICATIONS**

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| * **Certified Ethical Hacker** (**C|EH**) | * **ISO/IEC 27001 ISMS Implementer** | * **ITIL - Foundations** |

**GRADUATE PROJECTS**

***Mobile Security***

* Analyzed mobile authentication mechanisms to identify vulnerabilities and compare them based on security and usability metrics. Practically demonstrated fingerprint authentication bypass and explored potential attacks on trusted execution environment (TEE).
* Successfully pentested Google play store app and found multiple OWASP Mobile Top 10 vulnerabilities and privacy risks.
* Developed an Android App to stealthily track user location, when GPS is disabled, based on exfiltrated Wi-fi access point information.
* Developed Android App to demonstrate App collusion and intent based attacks to exfiltrate contacts and compromise user’s privacy.

***Java - Whack-A-Mole Game & Student Directory Application Development***

* Using Java, bulit the Whack-a-mole game leveraging multi-threaded programming and swing GUI concepts.
* Developed student directory to add, delete and retrive student details in Java using Swing GUI, HashMap, Arraylists, File I/O operations.

***Web 2.0 Web Application Development (Events4You)***

* Developed a simple Web 2.0 web application using PHP, MySQL, JavaScript, HTML & CSS. A user can use the web application to add new social events to share with other users, display all the events or top 10 events and search for events.

***Vawtrak Reverse engineering & Malware Analysis***

* Reversed latest variant of Vawtrak malware to discover multiple rounds of decryption, decompression, unpacking routines to identify dropper, thread creation, loader,  process injection, persistence, data collection and networking protocols using OllyDbg and IDA Pro.

***Python Capstone Project***

* Automated text analysis, modification of a given unformatted/unstructured input file to delete noise words from external file. Performed stemming, sanitization, sorting and calculated the frequency of the unique words for further data mining.

***Ethical Penetration Testing***

* OSCP Style Pentesting exam - hacked into multiple servers and web applications wihtin a time span of three hours to capture secret hashes using techniques like footprinting, anti-virus evasion,exploitation, privilege escalation, pivoting, port forwarding and persistence.

***Internet of Things (IOT): Review Of Current Security and Privacy Issues of IOT for a Secure Future***

* The research paper discusses different security and privacy aspects of IOT, giving an overview of all security concerns, review of current solutions, industry best practices and potential recommendations for the future.