# Abhishek Aravind Kulkarni
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**Nationality**:   Indian
**Date of Birth**: 01.01.1994

## CURRENT POSITION

**Teaching Assistant**, **University at Buffalo**      **CSE 442 – Software Engineering Concepts**        August 2016 – December 2016
- Helped with Course Design and mentored student groups, involved in both hardware and software projects.

## EDUCATION

**University at Buffalo, State University of New York**

Master of Sciences, Computer and Information Sciences                                            Anticipated in February 2017
Specialization: Software Systems (Security and Applied Cryptography)

**University of Mumbai – First Class with Distinction**

Bachelor of Engineering, (Computer Engineering)                                                     Graduated in July 2015
S.I.E.S. Graduate School of Technology, Mumbai, India

## PROJECTS UNDERTAKEN

**Wireless Network Node Visualizer**

*Application Developer*                                                                          October 2016 – December 2016
- Designed and implemented number of algorithms for creating graphs to represent wireless nodes.
- Created tools to visualize the graphs in python.
- Developed approximation algorithm to reduce the time complexity of creating adjacency lists from graph from $O(n^2)$ to $O(n)$.

**Analyzing Privacy Concerns in Secure DNS Protocols,** University at Buffalo

*Team Member*                                                                                    January 2016 – May 2016
- Analyzing and evaluating parameters for defining the privacy features of Secure DNS protocols.
- Created a study that developed a reproducible methodology to evaluate and compare Security-aware DNS protocols.

**Secure Contact Sharing,** University at Buffalo

*Team Member*                                                                                   UBHacking, November 5, 6 - 2016
- Developed a product that allows to securely share contacts using OCR over QR-code.
- Handled the Application development phase and security on the server providing the QR Code.

## CERTIFICATIONS

- System Security Certified Professional (**SSCP**) – Certified by **ISC²**
- Successfully completed the **Lucideus Certified Cyber Security Expert, Grade 1 & 2.**
- Completing courses required for Advanced Certificate Program in "Information Assurance" at University at Buffalo. (To be conferred in February 2017)

## SOFTWARE SKILLS

- **Languages:**      C++, Java, HTML5, CSS3, MySQL, PHP, Assembly, Python,C#.NET.
- **Frameworks**:    SpringMVC, Hibernate, Bootstrap, Moodle, AngularJS, NodeJS, OWASP, Spring Security, Metasploit.
- **Tools**:          Eclipse, Dreamweaver, Sublime Text Editor, OllyDBG, FireBug, Wireshark, VMware Virtual Box, Microsoft Office.

## PUBLICATIONS

- Kulkarni, Abhishek Aravind, Nikesh Hegde, and Monika Sharma (SIES Graduate School of Technology) "Educational ERP Systems in the Market-A Comparative Study." *International Journal for Innovative Research in Science and Technology* 1.8 (2015): 84-91.

## ACHIEVEMENTS

- **Third Place Finish,** Stadium Hack, Hackathon organized by Delaware North and UB School of Engineering, March 2016.
- **Event Winner,** UB Lockdown v0, Cyber Defense Competition, organized by UB, School of Management, December 2015.
- **Team Member,** representing University at Buffalo, at Deloitte Foundation Cyber Threat Competition, November 2015.
- Finished among **top 100 Hackers (Top Finish at UB)** in National Security Agency's "*CyberSprint Challenge*", December 2015.