

# ROHIT P. TAHILIANI

Postgraduate Student at Trinity College Dublin

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## EXPERIENCE

Software Engineer

 SONY

 Aug 2014 – Aug 2016     Bengaluru, IN

- Performing security scans, code enhancements & bug fixes.
- Production support & troubleshooting tasks.
- Working with Agile Scrum Methodologies.
- Delivered sessions to internal teams on the state of the art technologies.

## PROJECTS

</> **Implementation & Evaluation of Linux Queue Disciplines in ns-3**

 Dec 2016 – Ongoing     Dublin, IN


- Implementing a ns-3 model for a recently proposed AQM, PI2: A Linearized AQM for Classic and Scalable TCP.
- AQM Mechanisms a.k.a. Queue Disciplines are designed to address the problem of Bufferbloat.

</> **Improved Congestion Feedback in Data Center TCP**

 Aug 2013 – May 2014     Mangalore, IN

- DCTCP algorithm was modified to use mark from front strategy with an aim to reduce the Flow Completion Time of mice traffic.
- Simulations results obtained using ns-2 confirmed the effectiveness of proposed algorithm.

</> **System Hardening of Linux Box**

 Oct 2013 – Nov 2013     Mangalore, IN

- Implement multiple layer of defense mechanisms to lock down potential threats.
- Worked on Iptables, TCP Wrappers, Port Knocking techniques and performing vulnerability scans.

</> **Configuring Software Firewalls in Linux**

 Feb 2013 – Mar 2013     Mangalore, IN

- Implemented different rules and policies in iptables & uncomplicated firewall (ufw).
- Developed configurations to prevent attacks and block specific ports, protocols, IP addresses.

## TECHNICAL SKILLSET

Python    Shell    C++    MySQL

Linux/Debian    Kali Linux    Windows    Mac

Wireshark    Nmap    LaTeX    Git    JIRA    Chef    ns-3  
Amazon Web Services    DevOps    Agile    Performance Tuning  
Ethical Hacking    Penetration Testing    Network Architecture

## LIFE PHILOSOPHY


*“Start Early. Fail Often.”*

## EDUCATION

M.S. in Networks & Distributed Systems

 Trinity College Dublin, Ireland


 Sept 2016 – Ongoing


 B.E. in Computer Science & Engineering


 NMAM Institute of Technology, India

 Aug 2010 – May 2014

## MOST PROUD OF

 **Courage I had**  
to effectively deliver training to 120+ students on creating awareness about Cyber Security.

 **Publishing**  
book chapter and research papers at International Conferences.






 **Training Sessions**  
delivered at several colleges in India. Sessions mainly on using ns-3 simulator for network simulations.

## STRENGTHS

Hard-working    Presentation Skills  
Motivation & Leadership

Technical Writing    Research    HTTP  
DNS    SSL/TLS    TCP    Simulations  
Information Security    Networking

## INTERESTS

 Music     Photography     Blogging  
 Bike-riding     Cooking

## LANGUAGES

English  
Hindi  
Gujarati



## PUBLICATIONS

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### Books

- Khan, Samee Ullah and Albert Y Zomaya (2015). *Handbook on Data Centers*. Springer.

Contributed a chapter "TCP Congestion Control in Data Center Networks".

### Conference Proceedings

- Tahiliani, Rohit P, Mohit P Tahiliani, and K Chandra Sekaran (2012). "TCP variants for data center networks: a comparative study". In: *Cloud and Services Computing (ISCOS), 2012 International Symposium on*. IEEE, pp. 57–62.

## REFEREES

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### Prof. Hitesh Tewari

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✉ School of Computer Science & Statistics,  
Trinity College Dulin, Ireland

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### Ms. Sreedevi Karuppanan

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Bengaluru, India