

# VARUN M DESHPANDE

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**A passionate Ph.D. Researcher in Application Security and Privacy with 8 years of Industry experience in delivering best-in-class cross platform consumer security products looking for a challenging opportunity in information security and privacy domain.**

## CAREER OBJECTIVE

I aim to be a self-motivated research and development engineer wherein I would continuously learn and use my technical and organizational skills to make a valuable contribution to the success and progress of the institution of which I am a part of.

## EXPERIENCE – Working @ McAfee from July 2010

### Sr. Development Engineer at McAfee – Current

Working at McAfee's Consumer Security team for 8 **Years** providing best-in-class **cross platform security products** for OEM's, ISP's and Retail Partners. We provide exclusive **customized security solutions** to these partners covering most geos spread across NA, LTAM, APAC, JAPAN and EMEA regions.

Joined McAfee in a Quality Assurance role in consumer security division in July, 2010. Ours is the most outward facing engineering team which delivered cross device customized software security products to **OEM, ISP and retail partners**. Worked with partners such as HP, Dell, Acer, Lenovo, Verizon, AT&T, BT, Claro, PCDepot and more!

I developed several **automation tools** for improving efficiency and reducing effort per project delivery. These tools gave me exposure to **data structures** and **programming**. They have helped ensuring high quality deliverables as well as **saving tens of thousands of hours for the team** thereby reducing operating cost for the company!! Member of **McAfee Tech Track Program** and **Security Experts** group which provides opportunities for technical leadership and career advancement.

As a **security champion** for my team, I am responsible for security audit and testing of all the projects churned out from our team. General roles & responsibilities include enforcing secure development life-cycle, code reviews using Code Collaborator, GIT with respect to security, develop tools POCs, provide remediation for any security threats or vulnerabilities and train developers with respect to security principles, threat modelling and OWASP top 10 etc. During this process, I use tools such as Burp Suite, ZAP, Netsparker, Microsoft Threat Modelling Tool, NMap, Procmon, WinDB etc. for security testing. Protex and Nessus for vulnerability assessment, code matching and conformance testing Fortify, Coverity etc. for static code analysis.

Have received several accolades executing projects with at-most attention to detail and for team work.

Highly adept in **server management** and have served as administrator and point of contact for QA and CAT (Customer Acceptance Test) servers. Nick named - "Dr." (who can fix server issues) ;-)

Our team was one of the few software product delivery teams around the world to be ISO 9001 2008 certified.

Positions held at McAfee: Associate Software QA Engineer and Software QA Engineer, Senior Development Engineer

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## EDUCATION

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2004	S.S.L.C, 92.48%, <i>Shri Vani Education Center, Bangalore</i>
2006	P.U.C, 92.17%, <i>K.L.E's S. Nijalingappa's P.U College, Bangalore</i>
2010	<b>B.E in Information Science and Engineering</b> , 73.1%, <i>Visveswaraiah Technological University in MSRIT, Bangalore</i>
2013	<b>M.S in Computer Science</b> , 8.3 CGPA, <i>Manipal University, Bangalore</i>
Since 2013	<b>Ph.D</b> in Computer Science and Engineering, <i>Jain University, Bangalore. (Submitted Thesis)</i> Thesis topic: <b>"Finding Trustable Software Solutions for Secured Cloud based Services"</b>

## COMPUTER SKILLS

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Have quick grasping and adapting capability to get hands on with any given programming platform using **object oriented** approach and **algorithmic** techniques.

**Languages** C#, Java, HTML5, PHP, C, C++, JS, Perl, Python

**Software** Visual Studio, Eclipse, Netbeans, XAMPP, Android Dev Kit, VSphere, Hadoop

**Database** MySql, MSSQL, MongoDB, RavenDB

**Security** Exposure and mastery in using security tools for end-to-end secure development  
ZAP, Burp, Vega, Netsparker, Nessus, NMap, HTTPRecon, Microsoft Threat Modelling tool etc.

## Intellectual Property

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A total of **5 Intellectual Property – Patents** under process of being filed. These cover a wide area of technical research work including **privacy preserving technologies, service ranking frameworks, cloud services** and **data compression techniques**. *Will share more details on request basis.*

## TECHNICAL PUBLICATIONS & PRESENTATIONS

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### Book Chapters published in International Book Series:

- 1) Varun M Deshpande, Dr. Mydhili K. Nair, Ayush Bihani, "Optimization of Security as an Enabler for Cloud Services and Applications", book chapter published by **Springer** in edited volume titled "Cloud Computing for Optimization: Foundations, Applications, Challenges published in "Studies in Big Data" book series, Springer (Mar 2018) ISSN: 978-3-319-73676-1
- 2) Varun M Deshpande, Dr. Mydhili K. Nair, "Digital Privacy and Data Security in Cloud based services - A Call for Action", book chapter to be published by **Springer** in edited volume titled "Integrated Intelligent Computing, Communication and Security" containing proceedings of Second International Conference on Integrated Intelligent Computing **ICIIC-2018** ISSN - 978-981-10-8796-7 (Sep 2018)

### Papers Published in International Journals:

- 3) Varun M Deshpande, Dr Mydhili K. Nair, "Trust based Novel Secure Data Sharing Policy Framework for Social Networking", published in International Journal of Engineering Research in Computer Science and Engineering (**IJERCSE**), Vol4, Issue 6, June 2017, Online ISSN- 2394-2320, with Impact Factor 4.890

- 4) Varun M Deshpande, Dr Mydhili K. Nair, "Open Standards for Data Privacy Policy Framework in context of Trusted Social Networking", to be published in International Journal of Scientific Research in Computer Science, Engineering and Information Technology (**IJSRCSEIT**) | Volume 2 | Issue 5 | August - 2017 ISSN: 2456-3307
- 5) Varun M Deshpande, Dr Mydhili K. Nair, "Need for User Centric & Unified Privacy and Data Policies for Social Networking. Case Study: Google, Facebook, Amazon & Flipkart", to be published in International Journal of Latest Engineering Research and Applications (**IJLERA**) ISSN: 2455-7137, Volume – 02, Issue – 08, August – 2017, PP – 91-101
- 6) Varun M Deshpande, Dr. Mydhili K. Nair and Dhrumil Shah, "Major Web Application Threats for Data Privacy & Security – Detection, Analysis and Mitigation Strategies", published in International Journal of Scientific Research in Science and Technology (**IJSRST**) PRINT ISSN: 2395-6011, Volume 3 | Issue 7, pp. 274-287, September-October 2017
- 7) Varun M Deshpande, Dr. Mydhili K. Nair, "Finding Trustable Software Solutions for Secured Cloud based Services" published in International Journal of Scientific Research in Science, Engineering and Technology (**IJSRSET**), Online ISSN: 2394-4099, Volume 3 | Issue 6, pp.182-198, September-October 2017

#### **Papers Published in International Conferences:**

- 8) Varun M Deshpande, Dr. Mydhili K. Nair, Balaji Soundararajan (2013), "Customer Driven SLA in Cloud Based Systems", published in Proceedings by **Elsevier** of International Conference of Emerging Computations and Information Technologies, SIT, Tumkur, Karnataka (India), 22-23 November, 2013, pp 508-518
- 9) Varun M Deshpande, Dr. Mydhili K. Nair (2014), "Anveshana – Search for the Right Service", published in Proceedings by **IEEE** of International Conference of Convergence of Technology, Pune, Maharashtra (India), ISBN 978-1-4799-3759-2 indexed by **IEEE Explore and Scopus**
- 10) Varun M Deshpande, Dr. Mydhili K. Nair (2017), "A Novel Framework for Privacy Preserving Ad-Free Social Networking", published in Proceedings by **IEEE** of 2017 2nd International Conference for Convergence in Technology (I2CT), Pune, Maharashtra (India), ISBN 978-1-5090-4307-1/17 indexed in **IEEE Xplore**
- 11) Varun M Deshpande, Dr. Mydhili K. Nair (2018), "Towards Trusted Social Networking- A Holistic Policy based approach", to be published in Proceedings by **IEEE** of 2017 3rd International Conference for Convergence in Technology (I2CT), Pune, Maharashtra (India), indexed in **IEEE Xplore**

#### **Papers currently under review in International Journals:**

- 12) Varun M Deshpande, Dr. Mydhili K. Nair, "IDENTITY PROTECTION IN SOCIAL NETWORKING USING TRUSTABLE PRIVACY PRESERVING POLICY BASED DATA SHARING FRAMEWORK", under review in Scopus Indexed International Journal – IJCNC – ISSN – 0974-9322
- 13) Varun M Deshpande, Dr. Mydhili K. Nair, "LOOKUP! - A NOVEL TRUSTABLE SOLUTION FOR SECURE AND PRIVACY PRESERVING SOCIAL NETWORKING" to be submitted for review in Scopus Indexed International Journal – IJCNC - ISSN – 0974-9322

#### **Technical Presentations in International Conferences:**

- 14) Exhibitor at IEEE Conference on Wireless Communications and Sensor Computing held at Chennai in Jan 2010 (**ICWCSC 2010**): "Network monitoring using SNMP and Mobile Agents through Generic Web Services". Received a letter of appreciation for same effort.
- 15) Exhibitor at ORACLE Tech Days 2010, held at Hyderabad (**Oracle Tech Days 2010**): "QoS based Web Service Discovery 2010 Framework, with case studies Temperature monitoring using SunSpots, Geographical Information System using Google Maps, Network Monitoring using SNMP and Mobile Agents through Web Services "project.
- 16) Showcased 2 projects in **Sun Product Showcase event 2009**: Generic Web Services for Network Management using Mobile Agents & SNMP and Instantaneous Bridge Scoring via multimodal score input. This was held at MSRIT, Bangalore in November 2009.

## ACADEMIC PROJECTS

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I always have prime focus on novel research work and algorithm based approach for finding solutions to tough problems.

<b>Design of QoS based Cloud System (2012-2013)</b>	“Design of QoS based Cloud system using dynamic resource management and cloud profiling techniques” was my thesis for degree of Master of Science degree. This was 8 month single engineer project. In this project, I could discuss the need for customer driven service level agreements and explained in detail a novel architecture along with business logic and resource allocation algorithms to achieve the same. Later it translated to a technical publication as well.
<b>Framework for Web Services Discovery (2010)</b>	“Synchronous and Asynchronous framework for Web services discovery and ranking based on QoS through linear relevance factor algorithm” was thesis of my B.E degree. This was a 6-month project of team size 3. Project was executed under supervision of IBM, under IBM Remote Mentoring Program. In this project, I was entrusted with major roles including design and development of synchronous architecture. I successfully designed and implemented my novel ranking algorithm.
<b>Remote Network Monitoring using Mobile Agents (2009)</b>	This was a marathon project executed in parts by multiple teams which aimed at “Remote Network Monitoring using Mobile agents through generic web services”. I was entrusted with implementing a daemon process using mobile software agents (Aglets) and SNMP for establishing distributed computing especially when load at manager node is very high.
<b>Instantaneous Bridge Scoring (2008-2009)</b>	This was a web application developed for monitoring game of Bridge. Requirements was that scores could be updated in database using multiple modes including email, web application, SMS, mobile applications etc. I was entrusted with tasks such as data mining using unix-shell scripting, exploring content management systems and leverage on them. Input of scores into MySQL DB using email and SMS.
<b>Web Solutions Development (2008-2010)</b>	During my 2nd half of B.E, I worked part time as a free-lance web development consultant. In this course of time, I got a chance to work on around 10 web projects.

## OTHER HOBBY PROJECTS

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<b>Genetic Algorithms</b>	This project deals with designing and analyzing better algorithms for data generated in field of genetics. Searching large streams of data especially, genetic data based on established Rabin-Karp method. Data compression techniques based on binary search trees. Language: C#, Java
<b>Inventory Management System</b>	This project is implementing of an inventory management system. Includes asset tracking, interactive charts, asset transfer etc. Languages: PHP, MySQL, Google Chart api
<b>NoSql Search</b>	This project is implementing of a basic search engine using MongoDB and PHP with auto population of search keywords based on pattern matching. Languages: PHP and MongoDB
<b>Image Search</b>	This project is implementing of a basic search mechanism for Image search based on user’s request having multiple parameters. Languages: PHP and MySQL

These projects will soon be published in suitable avenues and made open source for collaboration.

## Corporate-Academia Engagements

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**Member of OWASP, Open Web Application Security Project** – An organization dedicated for advocating open standards in Web Application Security. Contact: varun.deshpande@owasp.org

Recipient of **Global Intellect Educational Award 2018** in category of **GIS Youngest Innovator Award (South Region)** distributed by JSR in association with **Asian Society for Scientific Research** in Pune, April 2018.

**Session Chair** during **2 IEEE I2CT International Conferences** held in Pune (2017, 2018)

**Mentor and Trainer** for Corporate Professionals for **Web Application Security Engineering** Course – Registered Tutor in Urban Pro since 2017

Invited as **Industry Subject Matter Expert** for training MCA/MSc students in **Cyber Security Engineering Summer Program @ Christ University – 2018**

Invited as **Guest Faculty @ BITS Pillani's Work Integrated Learning Program – 2018**

Collaborating with **Tech Fortune Academy** for career oriented course in **Cyber Security Engineering – 2018**

Invited as **Industry Subject Matter Expert @ Manipal Global - Prolearn** for Corporate & Academic courses in **Cyber Security -2018**

**Director & Trustee** of Manisha Cultural Foundation, a sister organization of Veda Vijnana Gurukulam, Bangalore. Manisha, a cultural organization, striving to **rejuvenate eternal Bharateeya (Indian) values**, thereby serving Bharatha's endeavor of regaining glory and splendor.

**Resource person** on the topic of **indigenous value based inclusive education system**. Associated with organizations such as Bharatiya Shikshan Mandal, Disha etc.

Awarded "**Best Achiever for batch 2006-10**" from MSRIT and "**Best Outgoing Student for batch 2006-10**" from Department of Information science & Engineering, MSRIT.

Received letter of appreciation from **IBM** for successfully completing project under **IBM Remote Mentoring initiative in 2010**.

Member of executive team at Takshashila Institute of Indian Studies - <http://tiis.in>

Invited as **Industry expert for M.Tech project** evaluation conducted by Dept. of CSE, SIT, Tumkur for 2014-15 batch

**Chess Player** (Captain of College and Corporate Team), adept in **Origami** and **Chalk carvings**, learning **Flute** (Hindustani) and have 2 certifications from Akhila Bharatiya Gandharva Mahavidyalaya Mandal, Mumbai

## PERSONAL INFORMATION

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MOB                      **January 1989**

Father's Name        **Madan Deshpande**

Sex                        **Male**

Marital Status        **Married**

Languages known **Kannada, Sanskrit, English, Hindi**

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I hereby confirm that details furnished above are true to best of my knowledge.

Place: Bangalore

Date:

Signature