

# Shamil C. M.

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CONTACT INFORMATION	TC 7/1564(3) 7 <sup>th</sup> Day School Lane, Tirumala P. O. Thiruvananthapuram 695006 Kerala, India	<i>mobile:</i> +91-8095156000 <i>e-mail:</i> shamil.cm@gmail.com <i>Github:</i> shamilcm
AREAS OF INTEREST	Language & Speech Technology, Algorithm Design, Machine Learning, User Interface Designing	
EDUCATION	<b>National Institute of Technology Calicut</b> <i>B.Tech, Computer Science and Engineering</i>	<i>Calicut, Kerala, India</i> <b>August 2009 – May 2013</b>
	<ul style="list-style-type: none"><li>- Cumulative GPA: 8.97/10 ; Major GPA: 9.42/10</li><li>- <i>Relevant Courses:</i> Data Structures &amp; Algorithms, Design &amp; Analysis of Algorithms, Advanced Topics in Algorithms, Theory of Computation, Computational Complexity, Number Theory &amp; Cryptography, Computer Security, Computational Intelligence, Data Mining, Discrete Computational Structures, Combinatorial Algorithms, Computer Networks, Operating Systems, Compilers, Databases.<ul style="list-style-type: none"><li>- Rank: 1 ( 8th semester GPA 10)</li><li>- Rank: 1 ( 7th semester GPA 9.9)</li><li>- Rank: 1 ( 5th semester GPA 9.7)</li></ul></li></ul>	
	<b>St. Thomas Central School</b> <i>Class XII (CBSE Board) : 94.4%</i> <i>Major Courses: Computer Science, Mathematics</i> <i>Class X (CBSE Board) : 93.6%</i>	<i>Trivandrum, Kerala, India</i>
WORK EXPERIENCE	<b>Software Developer</b> <i>Server Technologies (Business Intelligence)</i> Worked on Real Time Decisions Manager java web application of Oracle Business Intelligence Suite using technologies like Oracle Application Development Framework (ADF).	<b>Oracle, Bangalore</b> <i>June 2013 - Present</i>
RESEARCH EXPERIENCE	<b>Incorporating User-Feedback in Music Track Recommendation</b> <i>Supervisors: Dr. Bhiksha Raj and Dr. Rita Singh, Carnegie Mellon University</i>	<b>IIIT Delhi</b> <i>December 2011</i>
	<ul style="list-style-type: none"><li>- Designed a music track recommendation system giving personalized music recommendations.</li><li>- Used adapted GMM (Gaussian Mixture Modelling) and classification algorithms like Support Vector Machines (SVM).</li></ul>	
PROJECTS	<b>Experimental Operating System</b> <i><a href="http://xosnirc.github.com">http://xosnirc.github.com</a></i> <i>Supervisor: Dr. K Muralikrishnan</i>	<b>NIT Calicut</b> <i>January 2012 – February 2013</i>
	Design and implementation of an instructional operating system and underlying architecture with basic features like multiprogramming and filesystem as part of developing operating systems laboratory course work for junior year undergraduate computer science students.	
	<b>StegoBots in Google Plus</b> <i><a href="http://github.com/shamilcm/googleplus-photoscanner">http://github.com/shamilcm/googleplus-photoscanner</a></i> <i>Supervisor: Vinod Pathari</i>	<b>NIT Calicut</b> <i>September 2012 – October 2012</i>
	Implemented a trojan horse which steals saved passwords from Google Chrome, encodes them in images and spreads through Google Plus. The passwords are retrieved using a Google Plus / Picasa Application, which scans shared pictures for stolen passwords.	

**High Performance Computing & Virtualization in the Cloud** NIT Calicut  
*Supervisor: Dr. Vineeth Paleri August 2011 – January 2012*  
 Set up a scalable private cloud in the campus using open source tools like Eucalyptus and Rocks, capable of high performance computing and virtualization.

**Stock Market Simulator (Bulls n’ Bears)** NIT Calicut  
*Technical Event, Tathva 2011 and Tathva 2012 August 2011 – October 2011*  
 Developed and maintained a web based stock market simulation game based on live quotes from NSE(India) using PHP and MySQL, which was integrated with Facebook. The game had a participation of more than 2000 users.

**Social Network (Wireus)** NIT Calicut  
<http://github.com/shamilcm/wireus>  
*Class Project, Database Management Systems January 2010 – March 2010*  
 Designed and developed an open source social network using PHP and PostgreSQL, HTML/CSS, jQuery.

**Education & Research Portal for Infosys Intranet** Infosys, Trivandrum  
*Student Project April 2007 – May 2007*  
 Completed a summer project at Infosys Trivandrum to create a web portal using ASP.NET and C# covering all stages of software development from designing to testing.

**AWARDS AND ACHIEVEMENTS** First Prize, Games Category (Friends Photo Jigsaw), Facebook World Hack 2012 in Bangalore, India, September 2012  
 Gold Medal for First Rank Holder in Science Stream, St. Thomas Central School, May 2009  
 Best Student in Computer Science, St. Thomas Central School, January 2009  
 Winner, Catch Them Young 2006, organized by Infosys, May, 2006  
 Gold Merit for securing All India Rank 178 (State Rank 3) for National Cyber Olympiad, August, 2004

**CONFERENCES/ WORKSHOPS ATTENDED** World Hack 2012 - Organized by Facebook *Bangalore, September 2012*  
 Network Optimization and Security Workshop organized by Institute of Mathematical Sciences, Chennai and Indian Statistical Institute, Kolkata *Chennai, May 2012*  
 Winter School on Speech, Multimedia and Machine Learning organized by Carnegie Mellon University and IIIT Delhi *Delhi, December 2011*

**RESPONSIBILITIES / ACTIVITIES** – Vice Chair, ACM Student Chapter, NIT Calicut  
 – Treasurer, CSEA (Computer Science Engineering Association), NIT Calicut.  
 – HPC Cluster Administrator, NIT Calicut from 2010 - 2011  
 – Organizing Committee Member, FOSSMeet 2010 and FOSSMeet 2011 at NIT Calicut.  
 – Web/Creative Design Team Member, NIT Calicut.

**SKILLS**

- *Programming:* C, C++, Python, PHP, HTML/CSS, Shell Scripting, Java
- *APIs:* Facebook Graph API, Picasaweb
- *Tools:* MATLAB, LEX, YACC, GIT,  $\text{\LaTeX}$
- *DBMS:* MySQL, PostgreSQL, Oracle
- *Platforms:* GNU/Linux, Windows