P. SUNIL KUMAR

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PERSONAL DETAILS

- Father's Name   : P. Palaniyappan
- Date of Birth   : 01st July 1983
- Linguistic Proficiency : English, Tamil

EDUCATION

Degree/ Examination	Year of Passing	School/Institute	Board/University	Percentage /Grade
Ph.D.	Pursuing	National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli	8.5 CGPA With Distinction
M. E. (CSE)	2008	Jayaram College of Engineering and Technology	Anna University, Chennai	79% With Distinction
B. Tech. (Information Technology)	2005	M. Kumarasamy College of Engineering (Autonomous)	Anna University, Chennai	72%
Class XII	2000	National Higher Secondary School, Tiruchirappalli	Tamil Nadu State Board	70%
Class X	1998	Sri Vidhya Bharathi Matriculation School, Kulithalai	Tamil Nadu Matriculation Board	70%

WORK EXPERIENCE

- Working as a Assistant Professor, Department of Computer Science and Engineering at Periyar Maniammai University, Thanjavur from 27 July 2015 to Till Date
- Worked as a Assistant Professor (Senior Grade), Department of Computer Science and Engineering at TRP Engineering College (SRM Group), Irungalur, Tiruchirappalli from April 2013 to April 2015
- Worked as Research Associate in National Institute of Technology, Tiruchirappalli, under the project Smart & Secure Environment, a Collaborative Research Project, sponsored by National Technical Research Organization, New Delhi for 3 years and 9 Months.
- Worked as a Assistant Professor, Department of Computer Science and Engineering at Ponnaiyah Ramajayam College of Engineering and Technology, Vallam, Thanjavur, for 10 months.
- Worked as a Assistant Professor, Department of Computer Science and Engineering at Edayathangudy G. S. Pillay Engineering College, Nagapatinam for 8 months from 30.08.2007 to 30.04.2008
- Worked as a Programmer (Trainee) in the .net platform at Zygox Software (P) Ltd, Bangalore for 1 Year.

PROJECT WORK / TRAINING

- **Funded Projects**
  - Completed the funded Project titled "Industrial Waste Monitoring System using Splunk" sponsored by Tamil Nadu State Council for Science and Technology (TNSCST).
- **Academic Projects**
  - IEEE Projects
    - **"Dynamic Join Exit Tree Key Management",** developed using Java and Oracle.
    - **"Secure Group Communication",** developed using Java and Oracle.
    - **"Secure Three – Party Authenticated Quantum Key Distribution Protocols",** developed using C# .Net and MS-SQL Server 2000.
    - **Collaborative Detection of DDoS Attack – developed using Machine Learning Algorithm.**
    - **Collaborative Detection of Worm Attack – developed using Machine Learning Algorithm.**
- **Mini Projects**
  - Modified the Web based Digital Information Board (DIB) in TRP Engineering College
  - Maintained the Website for the CDBR-SSE Project, sponsored by National Technical Research Organization (NTRO) at National Institute of Technology, Tiruchirappalli.
  - Virtual Consultancy
  - Video Conferencing tool (Collaborated with IITM, Chennai and Anna University, Chennai)
  - Hybrid Intrusion Detection System Using Weighted Signature
  - Developed and maintained a website for the MKCE College and CDBR-SSE Laboratory, Dept of CSE, NITT.
  - Indian Tourism, Skill Testing, Data Transmission
  - Logic Gates
    - Developed using: VB, JAVA, J2EE (JSP), VB .Net, MS SQL Server, Swish, Flash, and HTML.
- **Company Project**
  - **"ECS – Electronic Clearing System"** at the Zygox Software (P) Ltd., Bangalore
    - Developed using VB .Net and SQL Server.
- **In plant Training**
  - Two week program n TCS Pune.
  - One week program in CDAC – Bangalore.
  - A weekdays training program in BSNL Trichy.
  - Two Months Internship program in the Zygox Infotech Private limited, Bangalore.

- **Conference Attended**
  - Participated in the "Workshop on Data Mining and Machine Learning Paradigms for Cyber Security Applications" during 11th-15th July, 2011, held at Chitkara Institute of Engineering and Technology, Chitkara University, Punjab, India.
  - Participated in the "7th – INDO – Australian Conference on IT Security (IACITS 2011), during 11th-12th April 2011, jointly organized by the Society for Electronic Transactions and Security (SETS), Chennai, Queensland University of Technology (QUT), Australia and Indian Institute of Technology Madras (IITM), Chennai, held at Indian Institute of Technology Madras (IITM), Chennai.
  - Participated in the "Conference on Surveillance and Security – Strategic and Surveillance Safeguard Security" during 30th April 2011, organized by the CII – Confederation of Indian Industry, held at Chennai.
  - Participated in the Workshop/Conference/Tutorial of "IFIP – Networking 2010", during 10th-14th May 2010, jointly organized by the Indian Institute of Technology Madras (IITM), Chennai, and Computer Society of India, held at Indian Institute of Technology Madras (IITM), Chennai.

- o Participated in the "Research Promotion Workshop on Introduction to Graph and Geometric Algorithms" during 7th-9th January 2010, jointly organized by the National Institute of Technology, Tiruchirappalli, and TIFR, School of Technology and Computer Science, held at National Institute of Technology, Tiruchirappalli.
- o Participated in the "TECS Week 2009 on Decentralized and Cooperative Computing" during 5th-9th January 2009, held at TATA Research Development and Design Center, Pune.
- o Participated in the "5th Indo-Australian Conference on IT Security: Electronic Transaction – Trust and Technology", during 1st-2nd April 2009 held at School of Information Technology, Jawaharlal Nehru University, New Delhi.
- o Participated in the RIPE PRANAVA, conducted by RIPE at, National Institute of Technology, Tiruchirappalli during 21 Nov 2009.
- o Participated in the "XML and Web Services", during 23rd-25th March 2007, held at the Center of Academic Excellence, Anna University, Tiruchirappalli.

- **Published Papers**

  - o P. Sunil Kumar, "Dynamic Join – Exit Tree Key Management", "MKCE-CONFLUENCE 08" in M. Kumarasamy College of Engineering, Karur.
  - o P. Sunil Kumar and K. Suganya, "High Secure Digital Image Steganography for the Secure Communication", in National Conference on Advanced Computing and IT Applications' 16", in KGiSL Institute of Management, Coimbatore, PP.: 5-9, ISBN: 978-81-910178-6-1.
  - o P. Sunil Kumar, "Collaborative Detection of Polymorphic Worms", in International Journal of Engineering Research and General Science, ISSN 2091-2730.
  - o P. Sunil Kumar and Yauvana Roja, "Design of Industrial Waste Monitoring System using Splunk (IWMS), in International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181.
  - o Three Papers are communicated to peer reviewed journals and are under review

- **Monograph**
  - o P. Sunil Kumar, "Applications of Cryptography", in National Seminar on Cryptography, Number Theory, and Algebra, 2015.

AREAS OF INTERESTS

- **Computer Networks**
- **Network Security (DDoS Attack, Polymorphic worm detection and Containment)**
- **Operating Systems, Distributed Operating System.**
- **Mobile and Pervasive Computing**
- **Information Security, Cloud Computing**
- **Internet of things (IoT).**
- **Wireless Sensor Networks**

SOFTWARE SKILL SET

- Programming Languages : **C, C++, Java, J2EE, VB 6.0, VB.NET, HTML, HTML5 and ASP.NET, PHP, Python**
- Operating System : **Windows XP, Windows 7, Windows 8, Windows 10 Linux, and UNIX**
- Database : **MS Access, SQL Server, Oracle**
- Hardware : **Maintenance and Troubleshooting**
- Certifications : **CISCO – Networking Course (CCNA)**

ACADEMIC ACHIEVEMENTS & CO-CURRICULAR ACTIVITIES

- Part of the Technical committee of Security Day 2008, 2009, and Attack Day 2011 held at National Institute of Technology, Tiruchirappalli combined with McAfee
- Collaborated with NTRO (National Technical Research Organization), McAfee, IBM for research work.
- Department second in the M. E. Computer Science and Engineering
- Department First in the 7th and 8th Semester in the B. Tech Information Technology
- Produced 100% results in the Anna University - University Examination
- Acted as an Online Chief Controller for the Semester Examination in Periyar Maniammai University.
- Member in "TEJAS Networks" Network Design Team in Periyar Maniammai University.

EXTRA CURRICULAR ACTIVITIES

- Acted as a Training and Placement Coordinator in TRP Engineering College
- Acting as an Assistant Warden for NITT Boys Hostel at National Institute of Technology, Tiruchirappalli since September 2008.
- Acted as a student representative for M. E. Computer science and Engineering during M. E. Program.
- Acted as a Chairman for the Department of Information Technology, during B. Tech Program.
- Best Performer in the school cricket team and won two times championship during sports day event.
- Played for the College cricket team in the NITT and runners of the IPL (Institute Premier League) match held at NIT, Tiruchirappalli during 2010 - 2011.
- Volunteer for the ISHA Yoga program at National Institute of Technology, Tiruchirappalli

I hereby declare that above information's are correct and true to my knowledge.

Place: Tiruchirappalli
Date:

(P. SUNIL KUMAR)