



Dr. M. Viju Prakash, M.E., MISTE., Ph.D.,

Bachelor, Master, and Doctorate in Computer Science and Engineering,
Member of IEEE, Madras Section,
Member of Indian Society of Technical Education,

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Academic Qualifications

- 2010 – 2016 **Doctor of Philosophy (Ph.D.), in Computer Science and Engineering**
Awarding University: M. S. University, Public University in India.
Specialization: Network Engineering.
Dissertation title: *A Power Aware Routing Protocol for Wireless Sensor Networks*
- 2005 – 2007 **Master of Engineering (M.E.), in Computer Science and Engineering.**
Awarding University: Anna University, Public University in India.
Specialization: Computer Science and Engineering.
Thesis title: *A guaranteed data delivery in Mobile Ad-hoc Networks (MANET).*
- 2001 – 2005 **Bachelor of Engineering (B.E.), in Computer Science and Engineering.**
Anna University, Public University in India.
Specialization: Computer Science and Engineering.
Thesis title: *An implementation of Elliptic Curve Cryptography (ECC) using Active HDL.*

Professional Certifications

- Oct 2024 **Red Hat OpenShift Administration II: Configuring a Production Cluster (DO280)**
Issued by RedHat Linux®
- March 2023 **Cisco Certified Network Associate (CCNA)**
This certificate is valid through: March 8, 2026
- AWS Certified Solutions Architect - Associate**
This certificate is valid through: March 25, 2026

Administrative Roles

- Apr 2023 – Till date **Amazon Web Services Academy Head**
Incharge and PoC (Point of Contact) for AWS Academy-related services.
- Cisco Networking and Cyber Security Academy Head**
Incharge and PoC (Point of Contact) for various Cisco Academy-related services.
- Professional Certifications Expert and Consultant**
Incharge and Consultant for various student-centric Cisco, AWS and other professional certifications.
- Mar 2024 – May 2024 **Acting Head of School**
Acting Head of School of Computing and Innovative Technologies.

Work Experience (13+ Years) Reverse Chronological Order

- Apr 2022 – Till date  **Senior Lecturer and Programme Lead.** Department of Computer Science, Degree Awarding University: University of Staffordshire, UK, **British University Vietnam**, Ecopark, Hung Yen province, Hanoi, Vietnam.
- Dec 2020 – Apr 2022  **Assistant Professor.** Department of Computer Science, **Wollo University (Public University)**, Amhara, South Wollo, Ethiopia.
- Oct 2019 – Sep 2020  **Assistant Professor.** Department of Computer Science, **Knowledge University (Private University)**, Erbil, Iraq.
- Oct 2017 – Oct 2019  **Assistant Professor.** Department of Computer Science, **Wollo University (Public University)**, Amhara, South Wollo, Ethiopia.
- Dec 2016 – Sep 2017  **Assistant Professor.** Department of Computer Science and Engineering, **Rajagiri School of Engineering and Technology**, Kochi, India.
- June 2012 – Oct 2016  **Assistant Professor.** Department of Computer Science and Engineering, **St. Xavier's Catholic College of Engineering**, Nagercoil, India.
- June 2011 – May 2012  **Assistant Professor.** Department of Computer Science and Engineering, **DMI Engineering College**, Nagercoil, India.
- June 2010 – May 2011  **Senior Lecturer.** Department of Computer Science and Engineering, **Sardar Raja College of Engineering**, Tirunelveli, India.
- Dec 2006 – May 2010  **Lecturer.** Department of Computer Science and Engineering, **Francis Xavier Engineering College**, Tirunelveli, India.

Selected Research Publications

Journal Articles

- 1 Nirmala, K., Nareshkumar, R., **Viju Prakash, M**, Hussain, M. M., Indhumathi, S., Nirmalrani, & Vidhya, U. (2025). Improved extractive text summarization of user reviews using pre-trained transformer model (accepted for a publication). *International Journal of Intelligent Systems and Applications in Engineering*.
- 2 Suja, P., Sharma, S. K., Veeranjanyulu, M., & **Viju Prakash, M.** (2024). Cryptography-enhanced document image processing and analysis using deep learning on medical imaging datasets. *ICTACT Journal on Communication Technology*, 15(4), 3374–3379.  <https://doi.org/10.21917/ijct.2024.0500>
- 3 **Viju Prakash, M.** (2023a). Improving the performance and reliability of rpl networks through security analysis and qos support. *i-manager's Journal on Information Technology*, 12(1), 15–22.  <https://imanagerpublications.com/article/19825>
- 4 **Viju Prakash, M.** (2023b). A study on cloud container technology. *i-manager's Journal on Cloud Computing*, 10(1), 07–16.  <https://imanagerpublications.com/article/19935>
- 5 Joshua Samuel Raj, R., **Viju Prakash, M**, Prince, T., Vijayakumar, V., & Fredi, N. (2020). Web based database security in internet of things using fully homomorphic encryption and discrete bee colony

optimization. *Malaysian Journal of Computer Science (Impact Factor: 0.6)*, Special Issue 1(2020), 1–14.

<https://doi.org/10.22452/mjcs.sp2020no1.1>

- 6 Jeya Shobana, S., **Viju Prakash, M.**, Sivaram, M., & Porkodi, V. (2019). Fccp – ns: A fair congestion control protocol with n – sinks in wireless sensor networks. *International Journal of Advanced Trends in Computer Science and Engineering*, 8(1.2), 43–51.
<http://www.warse.org/IJATCSE/static/pdf/file/ijatcse08812sl2019.pdf>
- 7 Navis Vijilia, A., Suresh Suseela, J., & **Viju Prakash, M.** (2018). Capacity analysis based on graph theory for vanets. *Global Journal of Pure and Applied Mathematics*, 14(2), 263–274.
https://www.ripublication.com/gjpam18/gjpamv14n2_08.pdf
- 8 Kaliappan, M., Mariappan, E., **Viju Prakash, M.**, & Paramasivan, B. (2016). Load balanced clustering technique in manet using genetic algorithms. *Defence Science Journal (Impact Factor: 0.58)*, 66(3), 251–258. <https://doi.org/10.14429/dsj.66.9205>
- 9 Paramasivan, B., **Viju Prakash, M.**, & Kaliappan, M. (2015). Development of a secure routing protocol using game theory model in mobile ad hoc networks. *Journal of Communications and Networks (Impact Factor: 1.632)*, 17(1), 75–83. <https://doi.org/10.1109/JCN.2015.000012>
- 10 **Viju Prakash, M.**, & Paramasivan, B. (2015a). An individual node delay based efficient power aware routing protocol for wireless heterogeneous sensor networks. *International Journal of Communication Networks and Information Security*, 7(1), 50–59.
<https://www.ijcnis.org/index.php/ijcnis/article/view/998/158>
- 11 **Viju Prakash, M.**, & Paramasivan, B. (2015b). Request – response based power aware routing protocol for wireless heterogeneous sensor networks. *International Journal of Multimedia and Ubiquitous Engineering*, 10(7), 59–74. <http://dx.doi.org/10.14257/ijmue.2015.10.7.07>
- 12 **Viju Prakash, M.**, Paramasivan, B., & Kaliappan, M. (2015). Energy efficient dynamic load balanced clustering protocol using memory enhanced genetic scheme and elitism based immigrant genetic scheme for manet. *Journal of Pure and Applied Microbiology (Impact Factor: 0.1)*, 9, 655–665.
https://microbiologyjournal.org/archive_mg/jmabsread.php?snoid=3089&month=&year=
- 13 **Viju Prakash, M.**, & Paramasivan, B. (2014). Geographic relay region based power aware routing in wireless sensor networks. *Journal of Theoretical and Applied Information Technology*, 66(2), 586–594.
<http://www.jatit.org/volumes/Vol66No2/23Vol66No2.pdf>
- 14 Jeya Shobana, S., **Viju Prakash, M.**, & Paramasivan, B. (2011). A survey on congestion control in wireless sensor networks (wsn). *Wireless Communication*, 3(5), 363–370.
<http://www.ciiitresearch.org/dl/index.php/wc/article/view/WC042011009>
- 15 **Viju Prakash, M.**, Jeya Shobana, S., & Alwin Infant, P. (2011). Wipe out brute force and malware based victim attacks using one-time password and grid-clear-captcha (gcc) – analytical study. *Networking and Communication Engineering*, 3(3), 183–192.
<http://www.ciiitresearch.org/dl/index.php/nce/article/view/NCE032011006>
- 16 **Viju Prakash, M.**, Paramasivan, B., & Jeya Shobana, S. (2011). Performance analysis of beaconless routing in wireless sensor networks (wsns) – present and future. *Wireless Communication*, 3(5), 335–344.
<http://www.ciiitresearch.org/dl/index.php/wc/article/view/WC042011006>
- 17 **Viju Prakash, M.**, Jeya Shobana, S., & Alwin Infant, P. (2010). Eliminating vulnerable attacks using one-time password and passtext – analytical study of blended schema. *Universal Journal of Computer Science and Engineering Technology*, 3(1), 133–142.
<http://journaldatabase.info/journal/issn2219-2158>

Conference Proceedings

- 1 **Viju Prakash, M**, Tadesse Birara, A., & Alemu Jorgie, M. (2024). Securing network data with a novel encryption scheme, ISBN: 978-1-394-27227-3, Creative Approaches Towards Development of Computing, Multidisciplinary IT Solutions for Society, Wiley.
- 2 Joshua Samuel Raj, R., Jeya Praise, J., **Viju Prakash, M**, & Sam Silva, A. (2020). Secure and efficient sensitive infohiding for data sharing via daces method in cloud, In *Springer proceedings of the international conference on intelligence in big data technologies – beyond the hype*, Coimbatore, India.
https://doi.org/10.1007/978-981-15-5285-4_62
- 3 **Viju Prakash, M**, Porkodi, V., Rajanarayanan, S., Mujeebudheen Khan, S., Fareed Ibrahim, B., & Sivaram, M. (2020). Improved conservation of energy in fog iot services using machine learning model, In *IEEE international conference on computing and information technology, university of tabuk, saudi arabia*, Tabuk, Saudi Arabia. <https://doi.org/10.1109/ICCIT-144147971.2020.9213719>
- 4 **Viju Prakash, M**. (2015a). Averting ddos attack in a wireless network by using lisp architecture, In *Proceedings of the international conference on recent trends in information and communication engineering*, Tirunelveli, India.
- 5 **Viju Prakash, M**. (2015b). Power aware route establishment in dynamic wireless sensor networks using an optimum relay, In *Proceedings of the international conference on knowledge collaboration in engineering*, Coimbatore, India.
- 6 **Viju Prakash, M**. (2014a). Assured data delivery on wireless heterogeneous sensor networks by energy aware routing scheme, In *Proceedings of the international conference on emerging trends in engineering and technology*, Kollam, India.
- 7 **Viju Prakash, M**. (2014b). A defence mechanism against energy depletion attacks in wireless sensor networks, In *Proceedings of the international conference on emerging trends in engineering and technology*, Kollam, India.
- 8 **Viju Prakash, M**. (2014c). Guaranteed data delivery in heterogeneous wireless sensor networks by energy aware routing scheme, In *Proceedings of the 1st international conference on research vogues in information and communication technologies*, Aralvaimozhi, India.
- 9 **Viju Prakash, M**. (2014d). Preventing carousal and stretch attacks in wireless sensor networks, In *Proceedings of the 1st international conference on research vogues in information and communication technologies*, Aralvaimozhi, India.
- 10 **Viju Prakash, M**, & Paramasivan, B. (2013). A broad revision of energy tree based power aware routing protocols in wireless sensor networks, In *Proceedings of the 1st international conference on advanced research in engineering technology*, Vijayawada, India.

Books and Chapters

- 1 **Viju Prakash, M**. (Expected: 2025). *Soc implementations using prometheus, grafana and splunk*.
- 2 **Viju Prakash, M**, & Jeya Shobana, S. (Expected: 2025[a]). *Cloud computing and type-1 hypervisor technology*.
- 3 **Viju Prakash, M**, & Jeya Shobana, S. (Expected: 2025[b]). *Vmware vsphere and vmware vcenter server administration*.

Skills

Server Technology	■ AWS EC2, Lambda, FarGate, Azure VMs, Elastic Beanstalk, Terraform (IaC).
Authentication	■ IAM, AWS CLI Access
Databases and Coding	■ MySQL, PostgresQL, NoSQL, AWS Redshift, Python, Java
Micro Services	■ AWS FarGate, AWS ECS, AWS EKS, Docker, Kubernetes, Jenkins, Flask API

Skills (continued)

Networking	■	AWS VPC, VPC Peering (intra and inter-region), Hybrid cloud using OpenVPN and VPC, CCNA, CCNP Switching and Routing, Route 53, OpenSWAN.
Security	■	Penetrative testing using Parrot/Black Arch OS, Kali Linux, Cyber Forensics using Autopsy, FTK Imager and Wireshark.
Misc	■	Azure PlayFab (Backend Cloud for Multiplayer Games), DevOps (CI/CD).
Configuration	■	Ansible, GitHub, Splunk, Prometheus, Grafana, AWS CloudWatch.
Storage	■	S3, EFS, EBS, SAN and NAS (LUN), vSAN
Virtualization	■	Broadcom VMware vSphere ESXi (Type-1), VCSA, Citrix, Microsoft Hyper-V

Miscellaneous Experiences

Appreciations

Apr 2023	■	Session chair - National Symposium on Innovation and Challenges in Computing and Innovative Technologies for a Sustainable Future, Appreciation from British University Vietnam.
Apr 2016	■	Caterpillar First Tech Challenge 2016, Appreciation from Caterpillar Inc. Construction machinery and equipment company.
Mar 2016	■	National level Technical Symposium Phoenix 16, Appreciation from St. Xavier's Catholic College of Engineering.
Dec 2015	■	Resource Person in National Digital Literacy Mission, Appreciation from Department of Science and Technology, Government of India.
Mar 2015	■	Session chair - National Conference on Recent Trends in Information and Computer Technology, Appreciation from St. Xavier's Catholic College of Engineering.
July 2014	■	Innovation in Science Pursuit for Inspired Research, Appreciation from Department of Science and Technology, Government of India.
Mar 2014	■	National Conference on Recent Trends in Computer Technology, Appreciation from St. Xavier's Catholic College of Engineering.
Feb 2014	■	Caterpillar First Tech Challenge 2014, Appreciation from Caterpillar Inc. Construction machinery and equipment company.
July 2013	■	Innovation in Science Pursuit for Inspired Research, Appreciation from Department of Science and Technology, Government of India.

Keynote / Faculty Development Programme (FDP) Conducted

Mar 2025	■	SoC Design and Implementation using Kali Linux and Splunk Enterprise, Keynote given for Third International Conference of Intelligent Techniques in Computer and Engineering Science, Kerala, India.
Feb 2025	■	AI in Cyber Security, International Five Days Faculty Development Programme, Ramco Institute of Technology, Tamil Nadu, India.
Nov 2023	■	Choosing the right certifications for you, Sponsored by British University Vietnam to guide the students with the right certification path.
Mar 2020	■	Information Technology and its impact on Education, Technical workshop sponsored by Knowledge University, Erbil.
Sep 2018	■	Internet of Things (IoT) and Smart Cities, Technical talk was given to the students of Sri Parasakthi College for Women, India.

Miscellaneous Experiences (continued)

- Aug 2018  **International conference on “Smart city”,**
Keynote talk was given to the students of Ponjesly College of Engineering, India.
- July 2017  **Design Project,**
Conducted one-week FDP in Rajagiri School of Engineering and Technology, India.
- Jan 2017  **Training on Network Simulations using NS-2,**
Conducted two days FDP in Rajagiri School of Engineering and Technology, India.

Keynote / Faculty Development Programme Organized

- July 2014  **Cyber Security,**
Technical workshop sponsored by Ministry of Human Resources, Govt of India.
- June 2014  **Computer Programming,**
Technical workshop sponsored by Ministry of Human Resources, Govt of India.
- Jan 2014  **National Network Security Championship,**
ACM and Indian Institute of Technology, New Delhi.
- May 2013  **Main Workshop on Database Management Systems,**
National Mission on Education through ICT, Govt of India.

Keynote / Faculty Development Programme Attended

- Nov 2016  **IBM Certified Application Developer – Cloud Platform,**
Sree Vidyanikethan Engineering College.
- Oct 2016  **Grid and Cloud Computing,**
Sree Vidyanikethan Engineering College.
- June 2016  **Grid and Cloud Computing Tools,**
K S R Institute for Engineering and Technology.
- Nov 2015  **Mobile Application Development,**
St. Xavier’s Catholic College of Engineering.
- Apr 2015  **Introduction to Design of Algorithms,**
Indian Institute of Technology Kharagpur.
- Jan 2015  **Formal Methods in Cryptography,**
National Engineering College.
- Dec 2014  **Programming and Data Structures I,**
St. Xavier’s Catholic College of Engineering.
- Sep 2014  **Steps 2 Research,**
Amal Jyothi College of Engineering.
- June 2014  **Mobile and Pervasive Computing,**
National Engineering College.
- May 2014  **Ubuntu Intermediate Course,**
St. Xavier’s Catholic College of Engineering.
-  **Ubuntu Desktop Course,**
St. Xavier’s Catholic College of Engineering.
- July 2013  **Advanced VLSI Technology,**
National Engineering College.
- June 2013  **Theory of Computation,**
National Engineering College.
- May 2013  **Coordinators Workshop on Database Management Systems,**
Indian Institute of Technology Bombay.

Miscellaneous Experiences (continued)

Nov 2012	■ Aakash for Education, Indian Institute of Technology Bombay and Govt of India.
Jan 2012	■ Game Theoretical Models for Problem Solving in Wireless Networks, National Engineering College.
Aug 2011	■ Object Oriented Analysis and Design using UML with Essentials of Rational Software Architect, IBM Software Education.
Jul 2011	■ Advanced Research in NS-2, Sun College of Engineering.
Feb 2011	■ New-Fangled Network Architecture-Spawning Network, National Engineering College.
Nov 2010	■ Working in NS2 – Network Simulator, Karunya University.
June 2010	■ Cloud Computing, K S R Engineering College.
June 2009	■ Programmable Logic Controller and Supervisory Control and Data Acquisition, Technocrat Automation Solutions Ltd.
Nov 2008	■ Server Administration for Internet, Mepco Schlenk Engineering College.
July 2008	■ Recent Trends in Wireless Networks, Madras Institute of Technology.

Details of Patent(s)

Sep 2019	■ Automatic Product Identification for the Shopping Cart by Using Smart Wireless Technology.
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Membership in Professional Bodies

100415148	■ Member in IEEE, Madras Section, IEEE New York.
LM75508	■ Lifetime member in Indian Society of Technical Education, India.
111629	■ Lifetime member in International Association of Engineers, Hong Kong.
80341040	■ Lifetime member in International Association of Computer Science and Information Technology, Singapore.

Google Scholar Citations

	All	Since 2019
Citations	167	78
h-index	6	5
i-10 index	6	4

Declaration

I am highly motivated to advance my career and am fully committed to working diligently toward achieving the goals of my organization. I hereby declare that the information provided above is true and accurate to the best of my knowledge.

Yours sincerely,



Dr. M. Viju Prakash, M.E., Ph.D.,

Last edited: July 30, 2025