

Curriculum vitae



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OBJECTIVE

- To work in a meaningful and challenging position that enables me to develop myself as a professional and permit scope for advancement.
- To build articulate problem solving systems that can interact with human beings. In this context I am looking at the following areas: Artificial Intelligence, Internet of things and Big Data Analytics.

EDUCATIONAL QUALIFICATION

- **Ph.D**, Anna University, Chennai, Tamil Nadu. (Pursuing)
- **M.E.** (Mobile and Pervasive Computing), University College of Engineering, BIT Campus, Anna University, Tiruchirappalli, Tamil Nadu, Jun 2015. (7.79 CGPA)
- **B.Tech.** (Information Technology), Arunai Engineering College, Tiruvannamalai, Tamil Nadu, April 2013. (6.80 CGPA)
- **Diploma in Computer Engineering**, Ponnaiyah Ramajayam Polytechnic College, Patteeswaram, Tamil Nadu, April 2013. (82.54%)

EXPERIENCES

- **Assistant Professor**, Dept. of Computer Science and Engineering, M.A.M. College of Engineering and Technology, Trichy. (24.12.2016 – Till Now)
- **Assistant Professor**, Dept. of Computer Science and Engineering, CARE Group of Institutions, Trichy. (01.02.2016 – 15.11.16)
- **PHP Developer**, DCS Global Info. Trichy. (15.10.2015 – 31.01.16).

BOOKS PUBLISHED

- **Programming in C++ and Data Structures**, Charulatha Publications, June 2017. (ISBN: ISBN: 978-93-86532-24-4)

- **Programming in C++**, Charulatha Publications, May 2017. (ISBN: 978-93-86532-17-6)
- **Programming in Java**, Charulatha Publications, Dec 2017. (ISBN: 978-93-86532-54-1)

PROJECTS

- Design and Implementation of an Intelligent Animal Intrusion Detection System for Farm Protection from Wild Animals using Internet of Things, live display at **MATLAB EXPO 2018** in HICC, Hyderabad on 24 April.
- Design and Implementation of NFC-Enabled Bio-Patch for Health Care Applications at **Titan Technology Tune-In**, Titan Pvt. Ltd., Hosur, 13-Mar 2018.
- Risk Analysis using Python Programming, **SEC Information India Pvt. Ltd.**, Pondicherry, July-Sep 2016.
- Financial Guidance, **SEC Information India Pvt. Ltd.**, 15.07.2016, SEC Information India Pvt. Ltd., Pondicherry, Oct-Dec 2016.
- Fuzzy Logic Based Traffic Adaptation in Wireless Mesh Network, **University College of Engineering BIT Campus, Anna University**, Tamil Nadu, May-2015.
- Maze Solving Robot using Freeduino and LSRB Algorithm, **Arunai Engineering College**, Tiruvannamalai, Tamil Nadu, Mar-2013.
- Secure Transaction Processing, **Ponnaiyah Ramajayam Polytechnic College**, Patteeswaram, Tamil Nadu, Mar-2010.

LECTURES GIVEN

- Delivered Special lecture in the topic, **Having the Right Ethics** organized by Agaram Foundation, Tiruchirappali, 08.04.2018.
- Delivered Special lecture in the topic, **IoT Applications in Agriculture** organized by Institute Of Engineers India, Tiruchirappali chapter, BHEL, Tiruchirappalli, 27.03.2018.
- Delivered Special lecture in the topic **Big Data Analytics** organized by RVS Kumaran Arts & Science College, Tiruchirappalli, 16.02.2018.
- Delivered Special lecture in the topic **Machine Learning and Internet of Things** organized by Shri Angalamman College of Engineering & Technology, Tiruchirappalli, 31.01.2018.
- Delivered Lecture in hands on workshop on **Embedded System** for Final Year ECE Students, M.A.M. College of Engineering and Technology, Trichy, 06.07.2017.
- Delivered Lecture in Summer Internship course on, **PC Hardware and Networking**, M.A.M. College of Engineering and Technology, Trichy, 30-31.05.2017.
- Delivered Lecture in Summer Internship course on, **Python Programming**, M.A.M. College of Engineering and Technology, Trichy, 01-02.06.2017.

- Delivered Lecture in Summer Internship course on, **Embedded systems and Internet of Things**, M.A.M. College of Engineering and Technology, Trichy, 03-04.06.17.
- Delivered Lecture in the topic, **Application of Graph Theory in Computer Science** in one week FDP on Graph Theory and its Application organized by Anna University, Tiruchirappalli, 2017.
- Delivered Lecture in the topic, **Reinforcement Learning Models and its Applications** in two weeks TEQIP Sponsored FDP on Recent trends and Applications of mathematics in computing organized by Anna University, Tiruchirappalli, 2016.
- Delivered Special lecture in the topic, **Artificial Intelligence** organized by Dhanalakshmi Srinivasan Institute of Technology, Tiruchirappalli, 2016.

CERTIFICATION COURSES

- **Introduction to Modern Application Development**, NPTEL (National Program on Technology Enhanced Learning) Certification, April 2018.
- **PHP and MySQL**, Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt., of India., April 2018.
- **Python**, Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt., of India., April 2018.
- **Scilab**, Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt., of India., April 2018.
- **Design for Internet of Things**, NPTEL (National Program on Technology Enhanced Learning) Certification, Sep 2017.
- **Programming, Data Structures and Algorithms using Python**, NPTEL Certification, Mar 2017.
- **Programming in C++**, NPTEL Certification, April 2017.

AWARDS AND ACHIEVEMENTS

- Project **Live Displayed** on MATLAB EXPO 2018 in HICC, Hyderabad on 24 April.
- Project **Exhibited** on Titan Technology Tune-In, Titan Pvt. Ltd., Hosur, 13-Mar 2018.
- Participated as **Mentor** on world's biggest Smart India Hackathon 2017 held in the Udaipur at Techno India NJR Institute under 'Digital India campaign' of Indian Government.
- **Best Paper Award**, International Conference on TCIEFS'15, CSIR-CLRI, Chennai, Tamil Nadu, 1st – 2nd May 2015.
- **Third Prize**, National Level Student Technical Symposium, Dept. of CSE, IFET College of Engineering, Villupuram, Tamil Nadu, 25th Feb, 2012.

- **Distinction**, Diploma in Computer Engineering, Ponnaiyah Ramajayam Polytechnic College, Patteeswaram, Tamil Nadu, April 2010.

ADDITIONAL RESPONSES

- **Course Instructor for Python**, Infosys Campus Connect, M.A.M. College of Engineering and Technology, Trichy. (Jan 2018 – April 2018)
- **Course Instructor for FP 5.0**, Infosys Campus Connect, M.A.M. College of Engineering and Technology, Trichy. (Mar 2017 – Dec 2017)
- **Development Director**, Center for Collaborative Industrial Research and Development (R&D), M.A.M. College of Engineering and Technology, Trichy. (29.03.2017 – Till Now)
- **Faculty Coordinator**, Yuva Student Club, M.A.M. College of Engineering and Technology, Trichy. (24.12.2016 – Till Now)
- **Web Developer and Admin**, M.A.M. College of Engineering and Technology, Trichy. (24.12.2016 – Till Now)
- **Faculty Coordinator**, Coding Club, M.A.M. College of Engineering and Technology, Trichy. (22.05.2017 – Till Now)
- **Deputy Warden**, Boys Hostel, CARE Group of Institutions, Trichy. (01.02.2016 – 15.11.16)
- **Web Developer and Admin**, CARE Group of Institutions, Trichy. (02.03.2016 – 15.11.16)
- **SEO Analyst**, DCS Global Info. Trichy. (15.10.2015 – 31.01.16)

JOURNAL PUBLICATIONS

- **Fuzzy Based Task Scheduling for Heterogeneous Distributed Computing**, International Journal of Innovative Research in Science, Engineering and Technology, Volume 6, Issue 12, December 2017.
- **Study of Wireless Distributed Computing Challenges and Approaches**, International Journal of Innovative Research in Science, Engineering and Technology, Volume 6, Issue 9, September 2017.
- **Application of Fuzzy Parameterized Generalized Fuzzy Soft Expert Set in health care Decision making**, Journal of Chemical and Pharmaceutical Sciences, Vol.08, Issue 04, Dec 2015.
- **Fuzzy Based Routing on Wireless Mesh Network**, International Journal of Autonomous and Artificial Intelligent, Vol.02, Issue 1, July 2015.
- **Application of Fuzzy Parameterized Generalized Fuzzy Soft Expert Set**, Global journal of Pure and Applied Mathematics, Vol. 11, Issue 3 June 2015.
- **Fuzzy Parameterized Generalized Fuzzy Soft Expert Set**, Australian journal of Basic and Applied Science, Vol. 9, Issue 10, May 2015.

- **Fuzzy Expert Decision Set**, International Journal of Mathematical Trends and Technology, Vol. 20, Issue 01, April 2015.
- **Vehicle Classification Algorithm using Fuzzy Expert Decision set**, International Journal of Application or Innovation in Engineering and Management, Vol. 04, Issue 04, April 2015.
- **A Novel Approach for Finding Shortest Path using Fuzzy Transportation Networks**, International Journal of Applied Engineering Research, Vol. 10, Issue 5, Mar 2015.
- **Fuzzy Logic Based Traffic Adaptation in Wireless Mesh Network**, International Journal of Scientific Research in Computer Science Applications And Management Studies, Vol. 3, Issue 6, Nov 2014.
- **Intelligent E-Healthcare Management System in Medicinal Science**, International Journal of Pharmtech Research, Vol.6, Issue.6, Oct 2014.
- **System Performance Measures Analysis for Heterogeneous Computing Network using Fuzzy Queue**, Indian Journal of Research, Vol. 03, Issue. 05, May 2014.
- **Performance Enhancement in OSI Network Model using Fuzzy Queue**, Indian Journal of Applied Research, Vol. 04, Issue. 04, April 2014.
- **Maze Solving Robot using Freeduino and LSRB Algorithm**, International Journal of Modern Engineering Research, Special Issue NCASG, Jul 2013.

CONFERENCE PUBLICATIONS

- **Design And Implementation of Fuzzy Priority Deadline Based Task Scheduling Algorithm in Heterogeneous Grid Environment**, National Conference on Emerging Trends in Mathematics & Applications in Engineering and Technology, Department of Mathematics, Hindustan Institute of Technology and Science, Chennai, 22-23 Mar 2018.
- **Fuzzy Parameterized Generalized Fuzzy Soft Expert Set**, International Conference on TCIEFS'15, CSIR - CLRI, Tamil Nadu, 1 – 2 May 2015.
- **Fuzzy Based Routing in Wireless Mesh Network**, International Conference on TCIEFS'15, CSIR - CLRI, Tamil Nadu, 1 – 2 May 2015.
- **New Therapeutic Applications for Drug Repositioning on the Cloud Computing**, International Conference on Inter Disciplinary Research in Engineering and Technology, Delhi, 29 – 30 April 2015.
- **Fuzzy Logic Based AODV Routing in Wireless Mesh Network**, A National Conference on Recent Trends in Communication and Signal Processing, Arunai Engineering College, Tamil Nadu, 27 – 28 Feb 2015.
- **A Novel Approach for Finding Shortest Path Using Fuzzy Transportation Networks**, A International Conference on Advancements in computing, Power and

- control, Christian College of Engineering and Technology, Tamil Nadu, 24– 26 Feb 2015.
- **FAWSN: Traffic Adaptation in WSN using Fuzzy Logic**, A National Conference on Advanced Technologies in Power Engineering and Wireless Sensor Network, Arasu Engineering College, Tamil Nadu, 19 February 2015.
 - **Solving Sudoku Problems with Genetic Algorithms**, National Conference on Computational Intelligence and Fuzzy System, University College of Engineering, BIT Campus, Anna University, Tamil Nadu, 22 Jan 2015.
 - **FNPR: Using Priority Rules with Fuzzy Serious Queues**, International Conference on Mathematics, Statics and Financial Mathematics 2014, University Tunku Abdul Rahman, Malaysia, 18 Nov 2014.
 - **A FSR Algorithm for Shortest Route Problem in Fuzzy Networks**, International Conference on Green Technology and Control, National Institute of Technology, Tamil Nadu, 27th – 29 Sep 2014.
 - **Fuzzy Based Headlight Controller for Intelligent Automobile Transportation**, National Conference on Mathematical Modeling, Cardamom Planters Association College, Tamil Nadu, 25th and 26 Sep 2014.
 - **Web Page Rescue with Fuzzy GCO, National Conference on Recent Trends in Communication Engineering**, Sree Sastha College Of Engineering, Tamil Nadu, 12 Sep 2014.
 - **Maze Solving Robot using Freeduino and LSRB Algorithm**, National Conference on Architecture, Software System And Green Computing, Aarupadai Veedu Institute of Technology, Vinayaka Mission University, Tamil Nadu, 03 May 2013.

TECHNICAL SYMPOSIUMS

- **Efficient Information Retrieval using Fuzzy Self Construction Algorithm**, National Level Technical Symposium, Department of Computer Science and Engineering, Angel College of Engineering and Technology, Tamil Nadu, 10 Aug 2012.
- **Robotics Micro-mouse on Open Source, National Level Student Symposium**, Department of Computer Science and Engineering, IFET College of Engineering, Tamil Nadu, 25 Feb 2012.
- **Neural Network Based Face Recognition System using Discrete Cosine Transform and Principal Component Analysis**, IEEE National Level Technical Symposium, Sona College of Technology, Tamil Nadu, 24 Feb 2012.
- **Security Measures for CDMA Mobile Phone Cloning**, National Level Technical Symposium, Department of Information Technology, Periyar Maniammai University, Tamil Nadu, 03 Oct 2011.

EVENTS AND PROGRAMS ATTENDED

- ICTACT Sponsored Two Days Faculty Development Program on **Introduction to Internet of Things**, Vivekanandha College of Technology for Women, Thiruchengode, 08-09.01.2018.
- One Day conference and exhibition on **NIDays**, National Instrumentations, ITC Gardenia, Bengaluru, 26 October 2017.
- Faculty Development Program on **Yi YUVA Faculty Leadership Camp**, Indian School of Business, Hyderabad on 25-26, Aug 2017.
- **Workshop on Seed Ball Workshop**, Infosys Ltd, Mahindra City DC, Chennai, 5th August 2017.
- ICTACT Sponsored Five Days Faculty Development Program on **Paloalto Firewall Installation, Configuration and Maintenance**, KLN College of Engineering and Technology, Madurai, 20.06.2017 to 24.06.2017.
- Faculty Enablement Program on, **Foundation Program 5.0** (Python programming and database systems), Infosys, Mahindra City, Chennai, 26.12.16 to 30.12.16.
- Faculty Development Program on **Recent trends and Applications of Mathematics in Computing**, Department of Mathematics, University College of Engineering BIT Campus, Anna University, Tamil Nadu, 21 July 2016.
- Workshop on **Evolution of 5G and IoT** through Cognitive Radio networks, Department of Electronics and Communication Engineering, National Institute of Technology, Tamil Nadu, April 2016.
- Workshop on **Software Testing – An Industrial Perspective**, Department of Computer Science and Engineering, University College of Engineering BIT Campus, Anna University, Tamil Nadu, 21 Nov 2013.
- Workshop on **Security in Web Applications**, Department of Information Technology, University College of Engineering BIT Campus, Anna University, Tamil Nadu, 26th Oct 2013.
- Workshop on **Data Center**, Department of Information Technology, Arunai Engineering College, Tamil Nadu, 23 Jan 2013.
- Workshop on **Embedded System**, Department of Electronic Communication and Engineering, Angel College of Technology, Tamil Nadu, 10th Aug 2012.
- Webex Session on **Technology Learning**, Department of Information Technology, Arunai Engineering College, Tamil Nadu, 17 Feb 2012.
- Workshop on **Mobile Android Application**, Department of Information Technology, Arunai Engineering College, Tamil Nadu, 23 Dec 2011.

EVENTS AND PROGRAMS ORGANIZED

- Thirty six hours continuous project competition on **MAMCET Hackathon 2018**, M.A.M. College of Engineering and Technology, Trichy, 01-02.03.2018.
- Workshop on **Blue Ocean Dialog**, M.A.M. College of Engineering and Technology, Trichy, 26.09.2017.
- Program on **YUVA Launch and MoU sign-up**, M.A.M. College of Engineering and Technology, Trichy, 07.08.2017.
- Workshop on **Embedded System** for Final Year Students, M.A.M. College of Engineering and Technology, Trichy, 06.07.2017.
- Summer Internship course on **PC Hardware and Networking**, M.A.M. College of Engineering and Technology, Trichy, 30-31.05.2017.
- Summer Internship course on **Python Programming**, M.A.M. College of Engineering and Technology, Trichy, 01-02.06.2017.
- Summer Internship course on **Embedded systems and Internet of Things**, M.A.M. College of Engineering and Technology, Trichy, 03-04.06.17.
- Workshop on Personality **Enhancement for MAMCET YUVA Students**, M.A.M. College of Engineering and Technology, Trichy, 24-25.04.2017.

MEMBERSHIP OF PROFESSIONAL BODIES

- Python Software Foundation
- Ubuntu Developer Community
- Raspberry Pi jam

DECLARATION

I hereby declare that all the particulars given above are true and verified with the best of my knowledge.

Yours Sincerely

(Arun Pandian J)