

SHARAD SHRIRAM

New No.12, Old No.100, Thirumalaisamy Street, New Siddhapudur ◊ Coimbatore, Tamil Nadu, India 641044
(+91) 99420 88026 ◊ sharad.sriram@gmail.com ◊ Homepage:ssharad.github.io

PERSONAL INFORMATION

Date of Birth: 10 June, 1994
Nationality: India
Marital Status: Single
Languages: Tamil (Proficient), English (Proficient), Hindi (Limited Proficiency) and French (Elementary Proficiency)

EDUCATION

Amrita Vishwa Vidyapeetham (Amrita University), Coimbatore *August 2016*
B.Tech. in Computer Science & Engineering
CGPA: 7.88 / 10

Bharatiya Vidya Bhavan Matric.Hr.Sec.School, Coimbatore *May 2012*
High School, 87%

EXPERIENCE

Amrita Vishwa Vidyapeetham (Amrita University) June 2015 - Present
Research Associate *Coimbatore, Tamil Nadu*

- Working on the implementation of a fast search algorithm on large datasets of network packet capture.
- This module is part of the project Malware Detection using FPGA, Sand-boxing and Machine Learning, funded by IBM Shared University Research scheme.
- Supervised by Dr. T. Senthil Kumar.

Amrita Vishwa Vidyapeetham (Amrita University) September 2014 - May 2016
Undergraduate Student Researcher *Coimbatore, Tamil Nadu*

- Research was based on designing and implementing IoT platforms with software applications for data visualization and decision making to solve real-world problems in the domains of Energy and Transport.
- Supervised by Dr. P. Bagavathi Sivakumar.
- Team coordinator for the project "An Automated System to Mitigate Loss of Life at Unmanned Level Crossings" in the Texas Instruments Innovation Challenge India Design Contest 2015.
- Conducted a two-day Introductory workshop on Beaglebone Black (2015) and a seminar on Internet of Things (2016).

Electronic System Design Laboratory, Velammal Engineering College June 2015
Research Intern *Chennai, Tamil Nadu*

- Developed an IoT sensor node with TI CC3200 to push acquired sensor data to the cloud using MQTT protocol.
- Data Visualization was done with Google Charts API and Data storage was done on MySQL Database.
- This module "Wireless Sensor Network enabled earlier real-time detection of spoilage in stored grains" project funded by the Dept. of Science and Technology, Govt. of India.
- Supervised by Dr. A. Balaji Ganesh

- Implemented an algorithm to secure communication between Wireless Personal Devices using XXTEA and XTEA algorithms.
- The prototype was developed on Arduino with TI CC2500
- Supervised by Mr. V. Ananthanarayanan

PUBLICATIONS

1. **Sharad, S.**, P. Bagavathi Sivakumar, and V. Ananthanarayanan. "The Smart Bus for a Smart City- a real-time implementation" to appear in the Proceedings of the 10th IEEE International Conference on Advanced Networks and Telecommunication Systems(ANTS)2016.
2. **Sharad, S.**, P. Bagavathi Sivakumar, and V. Ananthanarayanan. "An Automated System to Mitigate Loss of Life at Unmanned Level Crossings."Procedia Computer Science92 (2016): 404-409.
3. **Sharad, S.**, P. Bagavathi Sivakumar, and V. Anantha Narayanan. "A Novel IoT-Based Energy Management System for Large Scale Data Centers."Proceedings of the 2015 ACM Sixth International Conference on Future Energy Systems. ACM, 2015.
4. **Sharad, S.**, "Increasing Internet Speed and bandwidth by using Laws of Physics", 2014 International Conference on Intelligent Computing Applications, ICICA 2014. Institute of Electrical and Electronics Engineers Inc., 2014.[**Best Paper - Student**]
5. Ananthanarayanan.V , Rajeswari.A , GouthamKashyap. P, **Sharad S.** "An Attack Perceptive Approach for Reliable and Secure Wireless Connectivity between Medical Devices in Public Environment."International Journal of Applied Engineering Research 10.3 (2015): 6581-6600.

SERVICE

- **Subreviewer:** IEEE ISC2 2015

AWARDS AND ACHIEVEMENTS

- Secured 1st Place in Geek Nation, a computer science subject contest at Amrita University's TechFest (2016).
- Quarterfinalist, Texas Instruments Innovation Challenge India Design Contest 2015, ranked amongst the top 200 from the 3100 participating teams from India.
- Secured 2nd Place in Logitrix, a Puzzle-solving inter-department contest at Amrita University (2014)
- Secured Best Paper Student at the International Conference on Intelligent Computing Applications(2014)
- Certificate of Leadership from the Principal recognizing my role as School Captain (2012)

VOLUNTEERING AND MEMBERSHIPS

- Volunteer Developer at SocialCoder.org
- Volunteer, Amala Bharatham Campaign (a public clean-up campaign of Amrita University)
- Member of the Association for Computing Machinery (ACM)

MOOC COURSES

- **Coursera:** Machine Learning : A Case Study Approach, Machine Learning: Regression, A developer's guide to the Internet of Things.

TECHNICAL STRENGTHS

Computer Languages	Python, Java, HTML/CSS, Javascript, C/C++
Protocols & APIs	XML, JSON, MQTT protocol
Hardware	Arduino, Beaglebone Black, Raspberry Pi, TI CC3200
Tools & Others	Git, Tensorflow, IBM Bluemix, MySQL, Hadoop, D3.js, Apache Spark

RELEVANT LINKS

[Google Scholar Profile](#)
[LinkedIn : @sharadshriram](#)
[Github : @ssharad](#)
[Portfolio and Projects page](#)
[Quora : @Sharad Shriram](#)