

Sharad Shriram

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Education

- 2017-2019 (expected) **M.SC. COMPUTER SCIENCE**, *Delft University of Technology, Delft (NL)*
Specialization: Data Science and Technology Track.
- 2012-2016 **B. TECH. COMPUTER SCIENCE & ENGINEERING**, *Amrita Vishwa Vidyapeetham, Coimbatore (IN)*
Thesis title: The Smart Bus Project - Redefining Commuting in Cities.

Research Experience

- Jun'15 - Dec'16 **UNDERGRADUATE STUDENT RESEARCH ASSOCIATE**, *Amrita Vishwa Vidyapeetham, Coimbatore(IN)*
Implemented a Big Data search algorithm for a Network Intrusion Detection System, a project funded under IBM Shared University Research program.
- Sep'14 - May'16 **UNDERGRADUATE STUDENT RESEARCHER**, *Amrita Vishwa Vidyapeetham, Coimbatore(IN)*
Research in the domains of Internet of Things, Intelligent Transport Systems, Machine Learning for IoT with prototype development.
- June '15 **SUMMER RESEARCH INTERN**, *Velammal Engineering College, Chennai(IN)*
Developed an IoT data acquisition node on TI CC3200 connected to the cloud using MQTT protocol, data was stored in MySQL database and was visualized using Google Charts API at the Electronic System Design Laboratory.
- May'14 - Aug'14 **RESEARCH INTERN**, *Amrita Vishwa Vidyapeetham, Coimbatore(IN)*
Implemented an algorithm to secure communication between Wireless Personal Devices using XXTEA and XTEA algorithms with Arduino at the Mobile and Wireless Networks Laboratory,.

Selected Publications

- **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 Intl. Conf. on Advanced Networks and Telecommunication Systems (ANTS), 2016.
- **Sharad S**, P. Bagavathi Sivakumar, and V. Ananthanarayanan, "An Automated System to Mitigate Loss of Life at Unmanned Level Crossings", *Procedia Computer Science* 92, pp: 404-409, 2016.
- **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.
- **Sharad S**, "Increasing Internet Speed and bandwidth by using Laws of Physics", 2014 Intl. Conf. on Intelligent Computing Applications, IEEE, 2014. [won Best Paper - Student]

Technical Skills

Programming Languages: Python (most used), C++ , Java , HTML , CSS , JavaScript
Platforms & Libraries: Github , Tensorflow , LaTeX , D3.js, IBM Bluemix , MySQL , Hadoop , Apache Spark
Hardware: Arduino, Beaglebone Black, Raspberry Pi, TI CC3200

Languages

Tamil (Mother Tongue), English (Excellent, C2), Hindi (Intermediate, B1) and French (Elementary, A2)