Sharad Shriram

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Place of Birth: Mumbai, India

Education

- **Delft University of Technology** — Delft, Netherlands
  Master of Science in Computer Science — *Sept. 2017 – Aug. 2019 (expected)*
- **Amrita Vishwa Vidyapeetham (Amrita Univeristy)** — Coimbatore, India
  Bachelor of Technology in Computer Science and Engineering — *Aug. 2012 – May. 2016*

Experience

- **Amrita Vishwa Vidyapeetham (Amrita University)** — Coimbatore, India
  Undergraduate Student Research Associate — *Jun 2015 - Dec 2016*
  - **Finding Anomalies Quickly!**: The project presents the implementation of an algorithm that searches large dumps of packet captures for anomalies. The algorithm is based on the Locality Sensitive Hashing concept, implemented using Map-Reduce and tested on Hadoop and Apache Spark. This project was done under the IBM Shared University Research funding for the "Malware Analysis and Detection using Sand boxing and Machine Learning" project.
- **Amrita Vishwa Vidyapeetham (Amrita University)** — Coimbatore, India
  Undergraduate Student Researcher — *Sep 2014 - May 2016*
  - **A Smart Bus for a Smart City**: A real-time, networked application where smart phones and buses form a network of things. Commuters can use the smart phone application to locate buses to their destination in real-time, with information provided directly from the buses indicating the current location and ETA to the next bus stop. Administrators can monitor buses in real-time and manage the fleet for better operation. This was also my bachelor's degree project.
  - **Early Warning System for Unmanned Rail-Road Crossings**: A network of sensor nodes placed along the railway tracks relays information of an approaching train to the base hardware placed at the rail-road crossing. The base hardware alerts the traffic with audio and visual warnings.
  - **Scalable Energy Consumption Monitor**: A network of sensor nodes that constantly measure the temperature, humidity and energy consumption at server racks and logs them periodically. Based on the logged data, a learning algorithm is used to compute future energy requirement and cost involved.
- **Velammal Engineering College** — Chennai, India
  Research Intern — *June 2015*
  - **Connecting the TI CC3200 to the Internet**: Connecting a micro controller to the Internet by sending messages using a publisher-subscriber protocol. The sensor data from the micro controller is visualized on an online dashboard.

Selected Publications

- **Sharad, S.**, P. Bagavathi Sivakumar, and V. Anantha Narayanan. "The smart bus for a smart cityA real-time implementation." Advanced Networks and Telecommunications Systems (ANTS), 2016 IEEE International Conference on. IEEE, 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 (2016): 404-409.
- **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.

Recent Projects

- **SatVis - A Visualization Project**: Data Visualization of satellite data using D3 to locate, analyze the satellites based on their purpose and users over time.
- **Tweets Power Transport**: explores the possibility of using tweets from commuters to develop a real-time, commuter demand based fleet management system on bus routes.
- **Share a byte over a hand-shake**: explores data communication using human hand-shake.