

## EDUCATION

- **Wright State University** Ohio, USA  
*Master of Science (Thesis) in Computer Science; GPA: 3.33* Aug. 2014 – April. 2018
- **Anna University** Tamil Nadu, India  
*Bachelor of Technology in Information Technology; GPA: 3.14* Aug. 2010 – July. 2014

## EXPERIENCE

- **Northwell Health** New York, USA  
*Data Architect Intern* Jun 2016 - December 2016
  - **IoT-Health System:** Integrated IoT based application into Health Information Exchange (HIE) for data analysis and risk assessment. (Third-party APIs such as Fitbit, Withings etc, OAuth 2.0, Web service using SOAP)
  - **Rules-Trigger:** Incorporated a rule-based approach that could trigger in response to data upload from IoT devices used by patients. Simple Mail Transfer Protocol (SMTP) was used to trigger emails to physicians, rules are created using HIE interface by healthcare providers.
  - **Alexa-AWS:** Explored and developed an Amazon Alexa based skill which maps with a AWS-Lambda service designed using Node.js, capable of retrieving patient reports from Northwell server instance on doctor's query.
  - **UI-CDS:** Built an Interactive Clinical Decision Support tool to query Rules-engine easier for the BPM clients and summarizes better for making timely decisions.
  - **Support:** Managed conflicts, vulnerabilities and crashes in data transfer layer and ensuring delivering to HIE for analysis.
- **Servion Global Inc.** Tamil Nadu, India  
*Software Developer Intern* Jun 2013 - Feb 2014
  - **Chrome-Extension:** Designed a softphone by developing a Chrome Extension with HTML, jQuery and CSS. Extension enables the soft phone application (iframe) for Avaya and Sales-Force clients.
  - **Plugin:** Charted a Flash Policy Java Service to maintain Web Socket compatibility in Internet Explorer 8 and 9 in a Linux environment.

## RESEARCH & PROJECTS

- **Kno.e.sis Research Center - Wright State University** Ohio, USA  
*Graduate Research Assistant* Jan 2015 - April 2018
  - **Knowledge-enabled Health-care (kHealth):**  
Mobile/sensor application geared toward Asthma and Bariatric patients to Management their disease. I developed sensor-android app connectivity which involved Bluetooth APIs, summarizing patient recorded readings, EMAIL background service and user interface features. For more information visit - <https://knoesis.github.io/KHealth-Bariatrics>
  - **Thesis - Sensor Data Streams Correlation Platform for Asthma Management:**  
Engineered a real-time scalable system for kHealth which helps clinicians identify correlations from heterogeneous factors (environment, activity etc.) causing asthma outcomes. For more information visit - <https://vaikzs.github.io/kHealth-Dash>
  - **Publication/Submission:**  
**V. Sridharan**, V. Revathy, A. Sheth, K. Thirunarayan, S., M. Kalra "KHealthDash: Knowledge-Enabled Personalized DASHboard for Asthma Management", under review, 2018  
P. Anantharam, T. Banerjee, A. Sheth, K. Thirunarayan, S. Marupudi, **V. Sridharan** F. Shalini "Knowledge-driven Personalized Contextual mHealth Service for Asthma Management in Children", IEEE 4th International Conference on Mobile Services, June 27 - July 2, 2015, New York, USA
  - **Twitris Plugin API:**  
Designed a JavaScript Plugin API for **Twitris** enabling JavaScript developers to leverage the NLP algorithms developed and exposed by Twitris such as sentiment, emotion, People-Content-Network analysis, etc., on tweets.
- **Wright State University** Ohio, USA  
*Teaching Assistant*
  - Demonstrated machine learning approach with a Spam Detection data-set from UCI with evaluation metrics computed and interpreted. (Node.js)
  - Tutored HTML & CSS to implement important and fundamental elements and styling of DOM.

## SKILLS

- **Programming:** : Javascript, Python, Java
- **Client-side:** HTML, CSS, JavaScript, React JS **Libraries:** jQuery, Lodash, HighCharts
- **Server-side:** NodeJS, Python, **Frameworks:** Express, Sails **Databases:** Elasticsearch, MySQL
- **Tools & Technologies:** Apache Spark, PySpark, Git, REST APIs, Web sockets, AWS, NPM, Travis CI