

Vaikunth Sridharan

<https://vaikzs.github.io>

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GitHub LinkedIn Twitter Google+

EDUCATION

MS IN COMPUTER SCIENCE

WRIGHT STATE UNIVERSITY

Expected Dec 2017 | Dayton, OH, USA

Cum. GPA: 3.33/4.0

BTECH IN INFO. TECH

ANNA UNIVERSITY

May 2014 | Chennai, TN, India

Cum. GPA: 3.15/4.0

INTERESTS

Interactive Visualizations for Data Analytics, and Decision Making, Wearable Technology, Internet of Things (IoT), Scalable Data Processing, Machine Learning

COURSEWORK

Distributed Computing
Algorithm Design and Analysis
Advanced Wireless Networks
Advanced Programming Languages
Web Information Systems
Semantic Web 3.0
Data Mining and Data Warehousing
Data Structures and Algorithms
Database Management systems

SKILLS

PROGRAMMING:

JavaScript • Java (incl. Android)

CLIENT SIDE:

HTML • CSS • jQuery (incl. UI)
Libraries - jQuery, Lodash, HighCharts, Socket.io

SERVER SIDE:

NodeJS • Python (Intermediate)
Frameworks - Express, and Sails

DATABASES:

MySQL • Elastic Search

VERSION CONTROL SYSTEMS

Git • Subversion

OTHER TOOLS & TECHNOLOGIES

Elastic Search • Skale Engine • PM2 •
Rest APIs • NPM • Travis CI

ML TOOLS & TECHNOLOGIES

Weka • Simple-Statistics JS •
Skale-ML

COMMAND-LINE TOOLS

Terminal for Linux & MacOS • Bash
for Windows

RESEARCH EXPERIENCE

Kno.e.sis Center | kHealth | Jan 2015 – Present

- **Publication & Poster** P. Anantharam, T. Banerjee, A. Sheth, K. Thirunarayan, S. Marupudi & V. Sridharan "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
- **Thesis/Submission: Sensor Streams Correlation Platform for Asthma Management** V. Sridharan, V. Revathy, A. Sheth, K. Thirunarayan, S., M. Kalra "KHealthDash: Knowledge-Enabled Personalized DASHboard for Asthma Management, under review, 2018
Demo and Documentation - <http://vaikzs.github.io/kHealth-Dash>

Kno.e.sis Center | City 360 | Feb 2016 – June 2016

- Developed a visualization tool for multimodal city events using location, and type of events from Eventful, and Open data SF311 for decision support.
- **Publication** V. Sridharan, T. Banerjee, P. Anantharam, A. Sheth, & K. Thirunarayan "City360: Visualizing Multi-modal City Events for Decision Support" April 15th, 2015, Ohio, USA.
Link - <https://github.com/vaikzs/City360>

MASTER'S | TWEET FILTERING USING ACTIVE LEARNING

- With the advent of slang terms present on Twitter, there is a high degree of ambiguity related to every keyword. A keyword based extraction of the tweets will lead to the extraction of contextually irrelevant tweets.
- Eliminating such tweets have always been a challenge. We proposed an Active Learning solution to this problem. An intuitive user interface was successfully developed for re-labeling tweets with low confidence and re-train the classifier in real-time using Bootstrap Frontend, Socket.io, NodeJS, and MongoDB
Link - <https://github.com/vaikzs/TweetFiltering>

TEACHING ASSISTANT | CS 4800/7900 WEB INFORMATION SYSTEMS | JAN 2016 - APRIL 2016

- Tutored HTML & CSS to implement important and fundamental elements and styling. Also, demonstrated machine learning approach with a Spam Detection data-set from UCI along with evaluation metrics computed and interpreted. (Node.js)

INTERNSHIP EXPERIENCE

Northwell Health | Innovations (Wearable Tech.) | June 2016 – Dec 2016

- Integration of IoT application into Health Information Exchange (HIE) and making it available for analysis. Developed a rule based approach that could trigger in response to data upload from IoT devices used by patients. Managed conflicts, vulnerabilities and crashes in data transferring layer and ensuring delivering to HIE.
- Developed an Amazon Alexa Skill capable of retrieving patient reports on doctor's query. Apart from that built an Interactive Clinical Decision Support Tool to query Rules-engine and display in a user-friendly manner.

OTHER

April 2015
Jun - July 2014
Jan 2014
Oct 2014

Oral Presentation - City360: Multi-modal Traffic Data Visualization
Servion Global LTD. | Software Developer Intern (UI)
Microsoft Research India's TechVista Symposium
Web Mining & Data Mining Tools Workshop