

Vaikunth Sridharan

<https://vaikzs.github.io>

937.430.6079 | Sridharan.7@wright.edu | Dayton, Ohio

GitHub LinkedIn Twitter Google+

EDUCATION

MS IN COMPUTER SCIENCE

WRIGHT STATE UNIVERSITY

Expected April 2018 | 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

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

COURSEWORK

Distributed Computing

Algorithm Design and Analysis

Advanced Wireless Networks

Advanced Programming Languages

Web Information Systems

Semantic Web 3.0: Next Generation Applications

Data Mining and Data Warehousing

SKILLS

PROGRAMMING:

JavaScript • Java (incl. Android)

CLIENT SIDE:

HTML • CSS • jQuery (incl. UI)

Libraries - jQuery, Lodash, High-charts

SERVER SIDE:

NodeJS • Python

Frameworks - Express, and Sails

DATABASES:

MySQL • Elastic Search

OTHER TOOLS & TECHNOLOGIES

Elastic Search • Git • Skale Engine •

PM2 • Rest APIs • NPM • AWS •

Travis CI

ML TOOLS & TECHNOLOGIES

• Skale-ML • Sci-kit • Weka •

Simple-Statistics JS

COMMAND-LINE

Terminal for Linux & MacOS • Bash for Windows

OTHER

- Microsoft Research TechVista Symposium | Jan 2014
- Servion Global LTD. | Software Developer Internship | Jun '13 - July '14

EXPERIENCE

NORTHWELL HEALTH | INNOVATIONS (WEARABLE TECH.) | JUNE 2016 – DEC 2016

- Profitably integrated IoT based application into Health Information Exchange (HIE) and made it available for data analysis and risk assessment.
- 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.
- Investigated and developed an Amazon Alexa (AWS-Lambda) based skill capable of retrieving patient reports on doctor's query.
- Accomplished an Interactive Clinical Decision Support tool to query Rules-engine easier for the BPM clients to make timely decisions.

RESEARCH

KNO.E.SIS RESEARCH CENTER | HEALTH-CARE AND TRAFFIC | JAN 2015 – PRESENT

- **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>
- **Publication & Poster** 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
- **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>
- Successfully completed a visualization tool "City360" for multimodal city events using location, and type of events from Eventful, and Open data SF311 for decision support.

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

- 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.

MASTER'S CLASS PROJECT | TWEET FILTERING USING ACTIVE LEARNING | JAN 2015 - APRIL 2015

- Eliminating ambiguous slang terms present on Twitter have always been a challenge.
- Proposed and implemented ML approach intuitive UI successfully built for re-labeling tweets with low confidence with online retraining (Bootstrap CSS, Socket.io, NodeJS, and Elasticsearch)
Link - <https://github.com/vaikzs/TweetFiltering>