Vaikunth Sridharan

https://vaikzs.github.io

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GitHub LinkedIn Twitter Google+

EDUCATION

MS IN COMPUTER SCIENCE

Wright State University
Expected Dec 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

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)
Libaries - 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

INTERNSHIP 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 EXPERIENCE

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