Vaikunth Sridharan

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EDUCATION

WRIGHT STATE UNIVERSITY
MS in Computer Science
Expected Dec 2016 | Dayton, OH, USA
Cum. GPA: 3.33/4.0

ANNA UNIVERSITY
BTECH in Information Technology
May 2014 | Chennai, TN, India
Cum. GPA: 3.15/4.0

INTERESTS

Visualization for Data Analysis,
Web App Development,
Mobile Android App Development

COURSEWORK

Distributed Computing
Algorithm Design and Analysis
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 with Material Design) • C++
Client side:
HTML • CSS • jQuery(incl. UI)
Frameworks - Bootstrap, Materialize and SemanticUI.
Libaries - jQuery, Underscore, HighCharts, Socket.io
Server side:
Node JS • Python (Intermediate)
Frameworks - Express, Sails
Databases:
MySQL • ElasticSearch • Mongo
Package Managers
NPM • Atmosphere • Bower
Version Control Systems
Git • Subversion
Operating Systems
Linux • Windows
Tools and Other Technologies
Skale Engine • PM2 • Rest APIs • MarkDown

RESEARCH EXPERIENCE

PROJECT ASTHMA | RESEARCH ASSISTANT
Kno.e.sis Center | Jan 2015 – Present

- This sensor/mobile application is geared toward asthma management for children. k-Health kit consists of various sensors and Tablet Android Application for patient risk assessment.
- Contributed to the connectivity between Nitric Oxide sensor and Application, introduced data summarizing feature, and developed a incentive reward system. Versions Used : Java 1.7 and Android SDK 19.
- **Publication** : 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
- **Contribution/Thesis** : Sensor Streams Correlation Platform for Predicting Asthma Severity Levels
  Constructing a real-time scalable web platform that helps clinicians/researchers to identify and infer correlations and rules from streaming heterogeneous sensor data with symptoms in the context of asthma.

OTHER PROJECTS | RESEARCH ASSISTANT
Kno.e.sis Center | BARIATRICS | June 2017 – December 2017

- This mobile/sensor based application is targeted to monitor patients who have gone through bariatric surgery. Successfully developed an android application based on Google's Material Design guidelines and user-friendly flow.
- Some of the android concepts implemented are Fragments, Recyclerviews, AsyncTask, Sharedpreferences, and Persistent Cloud Storage

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

- Developed a visualization tool for multimodal city events using location, and type of events from Eventful, and Open data SF311 for decision support.
- Visualized continuous traffic flow data by collecting it asynchronously from Inrix.
- **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.

Kno.e.sis Center | DEMENTIA | Jan 2015 – December 2015

- This mobile/sensor application aspire to study the behavioral markers for dementia patients.
- Interfaced the sensors (UP24 and Hexoskin) with the application, introduced data summarizing feature, made UI changes, and bug fixes. I use Java 1.7 and Android SDK 17.

INTERNSHIP EXPERIENCE

NORTHWELL HEALTH | DATA ARCHITECT INTERN
JUNE 2016 – DEC 2016 | NY, USA

SERVION GLOBAL LTD. | SOFTWARE DEVELOPER INTERN
JUNE 2013 – FEB 2014 | TN, INDIA

OTHER

Jan - April 2016	Teaching Assistant for CS 4800/7900 Web Information Systems
April 2015	Oral Presentation - City360 : Multi-modal Traffic Data Visualization
Jan 2014	Microsoft Research India's TechVista Symposium
Oct 2014	Web Mining & Data Mining Tools Workshop