

# Vaikunth Sridharan

<https://vaikzs.github.io>

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## SKILLS & TOOLS

### Programming

JavaScript • Python • Java (incl. Android)

### Client side

HTML + CSS • JavaScript • React

### Server side

Node.js • Python

Frameworks - Express, and Sails

### Databases

MySQL • Elasticsearch • MongoDB

### Test

Mocha.js • Chai.js

### Other Tools & Technologies

Git • Skale Engine • PM2 • Rest APIs

NPM • AWS • Travis CI

### ML Tools & Technologies

Skale-ML • Sci-kit • Weka • Simple-Statistics

## INTERESTS

Data Visualizations for Analytics, & Decision Making

Scalable Data Processing

Wearable Technologies

Internet of Things (IoT)

Android App Development

## OTHER

Teaching Asst. | Web Info. Systems, Jan 2016

Coursework | Tweet filtering using Active Learning

## COURSEWORK

Distributed Computing

Algorithm Design and Analysis

Advanced Wireless Networks

Web Information Systems

Web3.0: Next Generation Applications

## LINKS

<http://github.com/vaikzs>

<http://linkedin.com/in/vaikunth-sridharan>

<https://scholar.google.com/?user=vaikunth>

## EDUCATION

### Master of Science in Computer Science

*Big and Smart Data Certified, April 2018*

Wright State University, Ohio, USA | Aug 2014 - April 2018

### Bachelor of Technology in Information Technology

Anna University, Chennai, India | Aug 2010 - May 2014

## PROJECTS

### Research Assistant

*Kno.e.sis Center, Wright State, Dayton, OH | Jan 2015 - Apr 2018*

#### 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. Further info., visit [thesis slides](#), [demo link](#).

#### Knowledge-enabled Health (kHealth)

Developed sensor-android app connectivity which involved Bluetooth APIs, summarizing patient recorded readings, email background service and user interface features. Further info., visit <https://knoesis.github.io/KHealth-Barietrics>.

#### 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.

### Data Architect Intern - Wearable Technology

*Northwell Health, Greater New York City, NY | Jun 2016 - Dec 2016*

Integrated IoT based applications into Health Information Exchange (HIE) for risk assessment.

Incorporated a rule-based approach that could trigger in response to data upload from IoT devices used by patients. Simple Mail Transfer Protocol (SMTP) used to trigger emails to physicians, rules are created using HIE for healthcare providers.

Explored and developed Amazon Alexa Skill which maps with a AWS-Lambda service. This was designed using Node.js, capable of retrieving patient reports from Northwell server instance on doctor's query.

Built an Interactive Clinical Decision Support tool using Node.js, Express, Twitter's Bootstrap to query Rules-engine easier for the BPM clients and summarizes better for making timely decisions.

Managed conflicts, vulnerabilities and crashes in data transfer layer and ensuring delivering to HIE for analysis.

### Software Developer Intern

*Servion<sup>+</sup> Global Solutions, Chennai, India | Jun 2013 - Feb 2014*

Charted a Flash Policy Java Service to maintain Web Socket compatibility for Internet Explorer 8 & 9.

Designed a softphone by developing a Chrome Extension with HTML, CSS and jQuery (incl. UI). Extension enables the soft phone application (iframe) for Avaya and Sales-Force clients.