# Kavin Chandrasekaran

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#### EDUCATION

Worcester Polytechnic Institute

PhD in Data Science

Worcester, MA May 2023(Expected)

**Indiana University** 

Bloomington, IN

Masters in Security Informatics

May 2013

# SKILLS SUMMARY

• Languages: Python, Java, SQL, R • Data Visualization Tools: Tableau

• Frameworks: Hadoop, Spark, MongoDB, PyTorch, Scikit-learn

#### Experience

## Research Assistant - Prof. Emmanuel Agu

May 2018 - Current

Worcester, MA

Worcester Polytechnic Institute

o Developing machine learning and deep learning architectures for sensor driven complex human activity recognition and generative models to be used in patient monitoring, ailment predictions and overall healthcare improvement

# Sr. Infrastructure Services Engineer

July 2013 - December 2015

Indianapolis, IN

National Government Services

- o Pioneered an effort to integrate OEM into daily monitoring workflow and created a centralized dashboard for monitoring and troubleshooting the application using the product iDashboards
- Created and maintained scripts to monitor the performance and availability of the application and create automated reports using data from Patrol, OEM and BAC (Business Availability Center)

IT Intern January 2013 - April 2013

National Government Services

Indianapolis, IN

• Worked on a CSR Staffing analysis to predict the CSR staffing requirements, based on previously known staff availability, requirement and their efficiency

## Junior Support Engineer Intern

May 2012 - August 2012

Likeminds Consulting Inc.

Piscataway, NJ

• Provided support for AARP's identity management system and security infrastructure with responsibilities including ensuring application availability, handling network failures, disk space issues and replication issues

## SELECTED PUBLICATIONS

## Peer-reviewed Publications

- 1. Get Up! Assessing Postural Activity & Transitions Using Bi-Directional Gated Recurrent Units On Smartphone Motion Data K. Chandrasekaran, W. Gerych, L. Buquicchio, E. Agu, & E. Rundensteiner. IEEE Healthcare Innovations and Point-Of-Care Technologies, 2019.
- 2. CARTMAN: Complex Activity Recognition Using Topic Models for Feature Generation from Wearable Sensor Data K. Chandrasekaran, L. Buquicchio, W. Gerych, A. Alajaji, E. Agu, & E. Rundensteiner. IEEE International Conference on Smart Computing (SMARTCOMP), 2021.

#### Selected Academic Projects

- PlentyOfReviews (Spring 2018): Developed a website which provides users the most diverse reviews for a given airbnb listing. Built using machine learning techniques like topic modeling
- Country classification based on accent (Spring 2018): Designed a multi-task learning approach using neural networks to determine the country of origin of a person based on their accent
- Big Friends Trust friends with Facebook Posts (Spring 2013): Designed and developed a mechanism for screening impetuous Facebook posts made during intoxication. Developed a Windows Phone application, which implemented the screening mechanism by posting to Facebook, only after ensuring the deliberateness or getting feedback from a set of trusted friends
- Health Monitor Using Kinect (Spring 2012): Developed a health monitor application using the Kinect sensor, which monitored the food habits and analyze the amount of junk food consumed by the user (Oral Presentation at: Evaluation of Off-the-Shelf Technologies for Health Applications, UbiComp 2012)