

# Lavanya Surikapuram

## Master of Software Engineering and Cloud Technology

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### Skills & Abilities

**PROGRAMMING LANGUAGES:** Java, Python, Perl, SQL, JSP, JavaScript, R, Scala, Node.js, MapReduce, HTML/CSS.

**BIG DATA TOOLS:** Hadoop, Apache Hive, Apache Spark, MongoDB, Kafka, ETL.

**FRAMEWORKS:** Python automation framework, Django, MongoDB-Django, Mocha framework.

**DATA MANAGEMENT SKILLS:** Strong Analytical, Quantitative, Data Modelling and Data Warehouse skills.

**CONFIGURATION TOOLS:** Perforce, GitHub, BitBucket, JIRA, Crucible, Confluence, IBM DOORS, Visio.

### Experience

#### SOFTWARE ENGINEER INTERN | IHS MARKIT | 06/2018 – 08/2018

- Developed a sqoop job scheduler tool on data using **python** and **mocha automation framework** using **Node.js** and Performed Data/API testing and developing test cases (**TDD MODE**) for an **agile** project (JIRA).

#### TEACHING ASSISTANT | ILLINOIS TECH | 01/2018 – 05/2018

- Developed a **java multithreading** tools for testing preemptive scheduler on **Hadoop cluster** and delivered a range of teaching and assessment activities of the **Big Data course** at graduate level.

#### SOFTWARE ENGINEER | HCL TECHNOLOGIES | 08/2014 – 01/2017

- Developed **Perl automated** script and ECG device functionality code (**C embedded**), resulting in time as well as a cost-efficient process. Also, Enhanced IBM Doors requirement extraction using **DXL scripting**.
- Developed **automated python test scripts** and protocols for ECG device related test cases to test the device functionality. Also, performed managerial roles like **scrum master**, for the **agile project**.
- Implemented a web application based on **Django and MongoDB** and Performed code integration through development tool (**Perforce**) as well as addressed review comments through code review tool(**crucible**), resulting in a reliable application which executes the automated test cases.

### Graduate Projects

- BIG DATA:** Performed **Hadoop cluster performance, MapReduce**, Analyzed Big Data with **Hive** and performed **Spark Streaming**. Performed data transfer between **RDBMS and HDFS using Sqoop** and analyzed data using spark **RDDs** and **Data Frames** along with **Scala** on a Hadoop YARN-based architecture.
- DATA ANALYTICS:** Successfully **Predicted** if the person is running or walking based on **deep neural network** and sensor data collected from the iOS device using statistical techniques using **R and SAS**.
- WEB DEVELOPMENT:**
  - Developed a **tutoring desktop application, survey system web application (MVC, Java, MySQL)**
  - Developed a **blog** application using the **Django web framework** and REST.
  - Developed a **MEAN stack** web application for processing **JSON** data.

### Education

#### MASTERS | 12/2018 | ILLINOIS INSTITUTE OF TECHNOLOGY | 3.8/4

- Major: Information Technology Management, Specialization: Data Management

#### BACHELOR OF ENGINEERING | 04/2014 | ANNA UNIVERSITY

- Major: Electrical and Electronics Engineering.

**CERTIFICATION:** Oracle Certified Java SE6 Programmer, Web Component Developer, 10g Database.