

# Venkateshkumar Sivakumar

- 129 Franklin Street, Cambridge, Massachusetts • (857)856-0198 • [sivakumar.ve@northeastern.edu](mailto:sivakumar.ve@northeastern.edu)
- <https://www.linkedin.com/in/venkateshsivakumar/>

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## EDUCATION

### Northeastern University, Boston, MA

Master of Science in Information Systems

Expected Graduation: December 2020

*Relevant Courses: Data Management and Database Design, Program Structure and Algorithms, Data Science Engineering Methods and Tools, Engineering of Big-Data Systems*

### Anna University, Chennai, India

Bachelor of Engineering in Mechanical Engineering

April 2014

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## SKILLS

Programming Languages	Java, Python, SQL
Web	HTML, JavaScript, CSS, RESTful service (JAX-RS), React
Performance Testing Tools	XRebel, Dynatrace
Database	SQL Server, Mongo DB, Oracle 11g
Operating Systems	Windows, Linux
Other Tools	Eclipse, Rational Application Developer, Net Beans, Apache Tomcat, Glassfish, MS Excel, Git, Maven, JIRA, PyCharm, JupyterLab, Jupyter Notebook, WebSphere Application Server, SonarQube, Tableau, Hadoop, Numpy, Pandas

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## WORK EXPERIENCE

### RapidMiner | Integrations Developer Co-op | Boston, Massachusetts

January 2020 – August 2020

- Accomplished integrations by collaborating with various third-party APIs such as **Talend**, **Tableau**, and established a smooth pipeline across platforms for building powerful predictive models
- Built and documented a **Conda project**, and developed a solution for the python-based wrapper in turn for a machine learning project
- Developed a web application using **React-SpringBoot** as a Proof of Concept and demonstrated it to the Engineering and Product Owner teams in the organization
- Created an Operator for RapidMiner Studio application, which helped the users to convert the targeted attribute's Date Format value to a user-defined Date format value

### Wipro Technologies | Senior Software Engineer | Chennai, India

December 2014 – December 2018

- Developed stand-alone application for Banking and Financial Service using **Java**, **Enterprise Java Bean 3.0**, **Hibernate**
- Implemented **Restful service (JAX-RS)** from scratch to share data between two different servers under a short deadline
- Improved quality of the application by finding the method which takes more time using **XRebel**, **Dynatrace** and modified the hibernate fetch techniques which saved more than 50% of the time it usually takes to load a screen
- Led a team of three members in developing application and guided the offshore team towards a successful product release
- Analyzed and calculated the story points of each use case and shared with the scrum master, which helped the team to plan the deliverables for each iteration and produced successful release within the deadline
- Executed several Knowledge Transfer sessions and groomed the freshers in the project which saved about INR.200,000 for the team and received positive feedback from the entrants
- Maintained code quality by using code analyzer tools such as **SonarQube** and **PMD**

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## ACADEMIC PROJECTS

### Mind Uploading

January 2019 – April 2019

- Proposed a model which can capture and store the neuron connections in the human brain happened at a time and trigger them when the user wishes to recollect and cherish those moments
- Designed ER model (normalized to 3NF) and created a Database in **SQL Server** with proper backup techniques which hold and maintains all the data

### Artificial Neural Networking

May 2019 – August 2019

- Devised a three-layer Artificial Neural Network - Perceptron model using core **Java** which uses a sigmoidal function for neuron activation
- Tested the system with XOR gate which produces 99% accuracy and when tested for image pattern recognition it produces 95% accuracy

### Food Supply Chain - Global Hunger Solution (Core Java, Java Swing)

January 2019 – April 2019

- Designed an object model and implemented an application with the participation of multiple Enterprise, Organization and Roles, where the communication between the layers are managed by work queue
- Worked with an Object-Oriented database, **DB4O** to save the data with a use case to present a dynamic graph which represents analytics done on the data stored