

Matthew Immanuel Samson
810, McCue Dr., Oshawa, L1K0R1, ON, Canada
Email : sunnyssj8@gmail.com
Phone : +1 905-914-7022
GitHub : <https://github.com/MatthewSamson>

EXPERIENCE

- **Retail Grocery Inventory Services (RGIS)** Oshawa, Ontario
Inventory Associate (Part Time) *Winter, 2020*
- **Leons' Furniture** Whitby, Ontario
Sales Associate - Appliances and Electronics (Part Time) *Summer, 2019*
- **University of Guelph** Guelph, Ontario
Graduate Teaching Assistant (Part Time) *2018 - 2019*

EDUCATION

- **University of Guelph** Guelph, ON
Master of Science in Computer Science (GPA: 3.94/4.0) *Sept 2018 - Jan 2020*
- **Panimalar Institute of Technology - Anna University** Chennai, India
Bachelor of Engineering in Computer Science (GPA: 8.35/10) *Aug 2014 - May 2018*
- **Spartan Matriculation Higher Secondary School** Chennai, India
High School Certification (GPA: 9.25/10) *Sept 2000 - May 2014*

SKILLS

- **Programming Languages:** Python, Java, C, C++, Matlab, R, Assembly.
- **ML Specialization:** Supervised, Unsupervised, Semi-supervised Learning.
- **AI Fields:** Natural Language Processing, Computer Vision, Time Series, Big Data.
- **Neural Network Libraries:** PyTorch, Keras (backend Tensorflow).
- **ML Libraries:** Numpy, Pandas, Scikit-learn, NLTK, OpenCV, Statsmodels.
- **Database Tools:** RDBMS, MySQL, PostgreSQL, Hadoop (Map-reduce & HDFS), PySpark, Data Warehouse, MongoDB, ETL pipelines.
- **Other Scripting Languages:** HTML, CSS, XML, Django (python).
- **Reporting and Visualization:** Matplotlib (python), Tensorboard, Tableau, Latex, Microsoft Office.
- **Coding Environments:** Jupyter Notebooks, Pycharm, Eclipse, Android Studio, RStudio, IntelliJ.
- **Working Environments:** Linux (Terminal, Vim), Windows (Anaconda), GitHub, Raspbian.

GRADUATE EXPERIENCE

- **Self-Organizing Maps on Driver patterns** Graduate Thesis
Studying behaviour of distracted drivers by extracting patterns from Self-Organizing Maps. 2019
- **Optimal search in Information Systems** Graduate Project
Building B Plus Trees and Static Hash Tables to optimize searching of growing databases. 2019
- **NLP model that generates characters** Graduate Project
A Long-Short Term Memory Recurrent Neural Network that learns to generate characters. 2019
- **Model to predict car quality** Graduate Project
A Shallow Feedforward Neural Network model that is trained to predict the quality of a car. 2018
- **Bayesian and Neural Networks** Graduate Project
Modifying a Bayesian Network to simulate Neural Network behaviour (a scientific paper). 2018

UNDERGRADUATE EXPERIENCE

- **Navigation Guidance tool for the Visually Impaired** Undergraduate Project
Tool that applies Spatial Mining and Image Processing to navigate and read boards. 2018
- **Human Resource Management System tool** Undergraduate Project
Developing an architecture for HRMS and implementing it into an Android App. 2017

PUBLICATIONS

- **Vicarious Self-Adaptive Re:Sight for the Visually Impaired using Spatial Data Mining**
International Journal of Advance Research in Engineering, Science and Technology (IJAREST), March-2018

INTERNSHIPS

- **Internship at Lumisence** Chennai, India
Implemented a prototype model that was the basis for the publication in the IJAREST. Winter, 2018
- **Internship at Hewlett-Packard (HP)** Chennai, India
Core Java development further being used in Windows Applications. Fall, 2017
- **In plant training at Uniq Technologies** Chennai, India
Android App Development, HTML and CSS scripting, Photoshop and Dreamweaver tools Summer, 2017

HOBBIES & INTERESTS

- **Sports:** Soccer, Basketball, Table Tennis and Badminton.
- **Reading:** Biographies, History, Geography, Philosophy and Politics and Stories.
- **Games:** Board games, Mobile and Console gaming.