

# Santanu Sarker

3A Computer Engineering

(647) 701-8107 | [s3sarker@uwaterloo.ca](mailto:s3sarker@uwaterloo.ca)

[github.com/santanu23](https://github.com/santanu23) | [santanusarker.com](https://santanusarker.com) | [linkedin.com/in/santanu23](https://linkedin.com/in/santanu23)

---

## Skills

- Proficient in Java, C#, and JavaScript; familiar with C/C++, Matlab and Python
- HTML, CSS (Bootstrap, Materialize), JavaScript (jQuery, AngularJS, ReactJS, Node.js)
- Git, TFS, MS SQL, MongoDB, Google Cloud Platform, Microsoft Azure, IBM Bluemix

---

## Employment

### Software Developer

May 2017 – Present

IBM, Toronto, ON

- Built and trained deep neural networks for image classification and object detection (R-CNN)
- Developed various pre-processing algorithms for object segmentation in images with OpenCV
- Designed and developed several web applications used to showcase proof of concepts (POCs)

### Software Developer

September 2016 – December 2016

SAP, Toronto, ON

- Designed and developed a web application to graph real-time sensor data streams using Bootstrap, Chart.js and Java (Jetty Web Sockets)
- Created tables, views, and stored procedures in SAP SQL Anywhere RDBMS
- Developed batch scripts to automate creation of SQL database and OData service

### Software Developer

January 2016 – April 2016

Fleet Complete, Toronto, ON

- Created a responsive web application using HTML, CSS (Materialize), JavaScript (jQuery, AngularJS) for displaying ECM compatibility based on VIN of various vehicles
- Developed RESTful API services in C# to interface with SQL database
- Extended functionality within Microsoft Dynamics CRM by creating plugins in C#

### Systems/Network Administrator

May 2015 – August 2015

Matcor-Matsu Inc, Brampton, ON

- Maintained several servers and assisted in day to day System/Network administration
- Developed C# windows application to automatically take inventory of computer on a network

---

## Projects

### Smart Garden | Web application, Hardware

[Github](#)

- Automates watering and lighting to ensure optimal growth conditions for plants

### Moodify | Web application, AI

[Github](#)

- Suggests a Spotify playlist based on user's mood using facial recognition (Microsoft Emotions API)

### Employer Info Sessions | Web application

[Github](#)

- Displays daily on-campus employer info sessions (time, location and target audiences)

---

## Education

### Honours Bachelor of Applied Science in Computer Engineering

2014 – 2019 (Expected)

University of Waterloo

- **Courses:** Compilers, Operating Systems and Systems Programming, Algorithms and Data Structures