

Santanu Sarker

3B Computer Engineering

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Skills

- Proficient in Java, C#, JavaScript, and Python; familiar with C/C++, and Matlab
- HTML5, CSS3 (Bootstrap, Materialize), JavaScript (jQuery, ES6, AngularJS, ReactJS, Node.js)
- Git, TFS, MS SQL, MongoDB, Microsoft Azure, IBM Bluemix, Scikit-learn, OpenCV, Caffe

Experience

Software Developer

May 2017 – Present

IBM, Toronto, ON

- Built and trained deep neural networks for image classification and object detection (R-CNNs)
- Developed pre-processing algorithms for object segmentation in images with OpenCV
- Created several proof of concepts using ReactJS and Node.js, aiding in sales of IBM Watson

Software Developer

September 2016 – December 2016

SAP, Toronto, ON

- Designed and developed an application included as part of SAP Dynamic Edge Processing for graphing real-time sensor data using Java (Jetty Web Sockets), jQuery, Chart.js, and Bootstrap
- 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 responsive web application using Materialize, and AngularJS for displaying ECM compatibility based on vehicle VIN used by internal teams to better serve customers
- Developed and maintained RESTful API services in C# interfacing with MS 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 computers on a network

Projects

Smart Garden | Web application, Hardware

git.io/vdJdP

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

Moodify | Web application, AI

git.io/vdJdM

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

Employer Info Sessions | Web application

git.io/vdJdg

- 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:** Databases, Networks, Compilers, Operating Systems, Algorithms and Data Structures