

Santanu Sarker

3B Computer Engineering

✉ sarkersantanu@gmail.com | ☎ (647) 701-8107

🏠 santanusarker.com | 🌐 santanu23 | in santanu23

👛 EXPERIENCE

IBM | SOFTWARE DEVELOPER

Sep 2017 – Present | Toronto, ON

- Improved a Python microservice for detecting signatures in tax forms using Tesseract OCR Engine increasing F score by 25%

IBM | SOFTWARE DEVELOPER

May 2017 – Aug 2017 | Toronto, ON

- Implemented a proof of concept utilizing a deep neural network (Faster-RCNN) and OpenCV to detect shoes in images of celebrities
- Utilized IBM Watson Visual Recognition to create an image classifier for classifying shoes into several categories (boots,heels, sandals, sneakers)

SAP | SOFTWARE DEVELOPER

Sep 2016 – Dec 2016 | Toronto, ON

- Developed a component for graphing real-time sensor data included in SAP Dynamic Edge Processing using D3.js, and Jetty Web Sockets
- Performed code reviews, identified improvements and assisted team in writing clean efficient code with high standards and quality
- Extended functionality of existing web applications by implementing feature requests using SAP UI5, and SAP HANA

FLEET COMPLETE | SOFTWARE DEVELOPER

Jan 2016 – Apr 2016 | Toronto, ON

- Created a responsive web application using Angular Js in accordance to Material Design guidelines used by sales team boosting productivity
- Implemented RESTful API services in C# interfacing with MS SQL database
- Extended functionality of Microsoft Dynamics CRM by creating C# plugins

MATCOR-MATSU | SYSTEMS/NETWORK ADMINISTRATOR

May 2015 – Aug 2015 | Toronto, ON

- Developed a C# windows application to monitor performance metrics of machines on the local network resulting in a 30% increase in availability
- Assisted in the design and implementation of system/network modification

📖 EDUCATION

UNIVERSITY OF WATERLOO | COMPUTER ENGINEERING

2014 - 2019 (Expected) | Waterloo, ON

Relevant Courses

Computer Networks • Database Systems • Compilers • Operating Systems
Algorithms & Data Structures • Digital Computers • Digital Hardware Systems

⚙️ PROGRAMMING

LANGUAGES

Java • C# • C++ • C
HTML • CSS • JavaScript
Matlab • Python • SQL

TECHNOLOGIES

AngularJS • Node.js
SAP UI5 • Materialize
MySQL • MongoDB
Jetty • ASP.NET MVC
OpenCV • Tesseract OCR
IBM Bluemix • SAP HANA

TOOLS

Git • TFS • VS Code

🏆 PROJECTS

🌐 INFO SESSIONS

A web application that displays daily employer information sessions on UW campus

🌐 MOODIFY

A web application that suggests a Spotify playlist based on a user's mood using facial recognition (Microsoft Emotions API)

🌐 SMART GARDEN

IoT project built using Raspberry Pi that automates watering and lighting to ensure optimal growth conditions for plants

🌐 KITCHEN IOT

Hackathon project that uses an Arduino to control appliances creating a smart kitchen

💡 INTERESTS

Cryptocurrencies (blockchain)
Photography • Gaming • Fitness