Santanu Sarker

4A Computer Engineering

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TOP HAT I SOFTWARE DEVELOPER

Jan 2018 - Present | Toronto, ON

 Building a JWT based authentication service using AWS aiding in the transition from a monolithic architecture to microservices

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

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

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

E 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

Angular JS • Node. js SAP UI5 • Materialize MySQL • Mongo DB Jetty • ASP.NET MVC Open CV • Tesseract OCR IBM Bluemix • Amazon AWS

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