

Santanu Sarker

3A Computer Engineering

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WORK EXPERIENCE

SAP | SOFTWARE APPLICATION DEVELOPER

September 2016 – December 2016 | Toronto, ON

- Designed and developed a web application using Bootstrap, Chart.js and WebSockets (Jetty) to graph real time sensor data streams for SAP IEP MAA
- Developed batch scripts to automate creation of database and OData service
- Created database schema in SAP SQL Anywhere RDBMS

FLEET COMPLETE | JUNIOR DEVELOPER

January 2016 – April 2016 | Toronto, ON

- Extended the functionality of Microsoft Dynamics CRM by creating C# plugins
- Designed and maintained tables, views, and stored procedures in MS SQL
- Created web portals using Materialize CSS framework, and AngularJS
- Developed RESTful API services in C# to query a database

MATCOR-MATSU INC | SYSTEMS/NETWORK ADMINISTRATOR

May 2015 – August 2015 | Brampton, ON

- Maintained several servers and assisted in day to day administration
- Assisted in the design and implementation of system/network modification
- Developed C# windows application to monitor performance of local network

PROJECTS

MOODIFY | JANUARY 2017 | WEBSITE

- Web application that suggests a song based on user's mood
- Built using Microsoft Emotions API, and Spotify API

SMART GARDEN | NOVEMBER 2016 | HARDWARE

- Smart garden that automates watering and lighting to ensure optimal growth conditions for plants
- Utilizes multiple environmental sensors (light, humidity, soil moisture) connected through I2C bus to a Raspberry Pi

KITCHEN IOT | JUNE 2016 | HARDWARE

- Arduino project that controls appliances creating a smarter kitchen
- Uses a servo motor to steep tea and relay switches to turn appliances on and off

EMPLOYER INFO SESSIONS | APRIL 2016 | WEBSITE

- Built a web application to display daily employer information sessions along with the times, locations and target audiences
- Built with Materialize CSS, and UWaterloo Open Data API

CHEMISTRY COLLECTOR | JUNE 2014 | PC GAME

- Used knowledge of OOP to create 2D platformer game in C#
- Designed level textures, and character sprites using Adobe Photoshop

SKILLS

LANGUAGES

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

TECHNOLOGIES

jQuery • AngularJS • Node.js
Jetty • Entity Framework
MS SQL • MongoDB • Simulink

TOOLS

Git • TFS • SVN • Photoshop

EDUCATION

UNIVERSITY OF WATERLOO

COMPUTER ENGINEERING

Expected June 2019 | Waterloo, ON

Courses

- Algorithms and Data Structures
- Operating Systems
- Compilers
- Digital Computers
- Embedded Microprocessor Systems
- Digital Hardware Systems

Clubs

- University of Waterloo Alternate Fuels Team (UWAFIT)

SATEC @ W.A PORTER

HIGH SCHOOL

Graduated June 2014 | Toronto, ON

Courses

- Computer Science
- Computer Engineering
- Computer Networks

Clubs

- VEX robotics
- Mindstorms Lego robotics
- Chess

ACTIVITIES/INTERESTS

Basketball • Soccer • Swimming
Photography • Gaming • Fitness