

# Santanu Sarker

2B Computer Engineering

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## Summary of Qualifications

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- High level of proficiency in C#, Java, and Visual Basic. Projects Include: developing computer games, windows forms applications and android applications
- Adept in web development with HTML, CSS (Bootstrap, Material), JavaScript (jQuery, Angular). Experience from developing my personal website, and other web portals
- Knowledge of relational database architecture and query design with SQL in Microsoft SQL Server
- Exceptional problem solving and troubleshooting skills developed through work experience
- Ability to learn quickly and communicate effectively; developed through school

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## Activities and Interests

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### Web Development July 2014 – Present

- Designed fully responsive personal website using HTML, CSS (materialize), and JavaScript (jQuery)

### Mobile Development December 2014 – Present

- Created android applications that help users interact with the real world using sensor information

### PC Game Development February 2013 – June 2014

- Implemented knowledge of OOP to create 2D platformer games in C# XNA game studio
- Designed level textures, menu screens and character sprites using Adobe Photoshop
- Utilized knowledge of generics to efficiently store and retrieve data to and from files

### Automation Using Scripts October 2013 – December 2014

- Programmed scripts in AutoIT to automate human behaviour inside of computer games

### Vex Robotics September 2013 – December 2014

- Applied knowledge of physics to design robotic components such as drive shafts and lever arms
- Assisted team members build and test the performance of the robot

### Lego Robotics September 2011 – November 2013

- Assisted team members in developing a line following robot built using Lego
- Participated in 3 UOIT Lego robotics competitions

### Computer Troubleshooting and Assembly June 2011 – August 2013

- Assembled several custom PCs for clients
- Installed the Windows operating system on various PCs

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## Work and Volunteer Experience

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### Junior Developer January 2016 – April 2016

Fleet Complete, Toronto, ON

- Extended functionality within Microsoft Dynamics CRM by creating plugins in C#
- Created web portals using HTML, CSS (Materialize), JavaScript (jQuery, Angular, Knockout)
- Developed RESTful API services in C# to interface with SQL database
- Designed and maintained tables, views, and stored procedures in MS SQL

**Systems/Network Administrator****May 2015 – August 2015**

Matcor-Matsu Inc, Brampton, ON

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

**Youth Zone Coordinator****June 2013 – August 2013**

YMCA of Greater Toronto, Scarborough, ON

- Created engaging and enjoyable activities for children from ages 6-12
- Commendably managed children by ensuring their enjoyment
- Troubleshooted and solved any technical problems with TVs, Xbox 360s, and PCs

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**Education****Candidate for Bachelor of Applied Science, Honours Computer Engineering****2014 – Present**

University of Waterloo, Waterloo ON

- **Courses of Interest:** Algorithms and Data Structures, Operating Systems, Digital Computers

**Attained Ontario Secondary School Diploma****2010 – 2014**

SATEC @ W.A Porter, Toronto, ON

- **Courses of Interest:** Computer Science, Computer Engineering, Computer Networks
- **Competitions:** VEX robotics, Lego robotics, Canadian Computing Competition
- **Awards:** SATEC award of academic excellence, 2011 – 2014