

Santanu Sarker

2A Electrical Engineering

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Summary of Qualifications

- 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 HTML5, CSS3, JavaScript. Experience from developing my personal website using Jekyll Framework
- Knowledge of relational database architecture and query design with SQL
- Exceptional problem solving and troubleshooting skills developed through work experience
- Ability to learn quickly and communicate effectively; developed through school teams and clubs

Activities and Interests

Web Development

July 2014 – Present

- Designed fully responsive websites using HTML5, CSS3, JavaScript (jQuery) and Jekyll Framework

Android 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
- Participated in a VEX robotics competition

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

Work and Volunteer Experience

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

Basketball Coach**June 2012 – September 2012**

YMCA of Greater Toronto, Scarborough, ON

- Co-ordinated with the head coach to plan and teach children essential basketball drills
- Effectively communicated with parents about their children's progress in basketball

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

University of Waterloo, Waterloo ON

- **Courses of Interest:** Algorithms and Data Structures, Digital Computers, Electronic Circuits

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