

Sonu Lall

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Technical Skills

Web

JavaScript/AJAX	●	●	●	◐	○
HTML/CSS	●	●	●	●	○
MySQL/PHP/Perl	●	●	●	○	○
ASP.Net/C#/Ruby	●	●	○	○	○

OS

Windows	●	●	●	◐	○
MacOSX	●	●	●	●	○
Linux	●	●	◐	○	○
FPGA	●	●	○	○	○

CAD

AutoCAD	●	●	●	○	○
SolidWorks	●	●	●	○	○

OOP

XCode/ObjC	●	●	●	●	◐
C++/JAVA	●	●	●	●	○

Design

Photoshop	●	●	●	●	○
Illustrator	●	●	●	○	○
UI/UX Design	●	●	●	●	○

*Note: One circle means exposure, 5 circles means expert

Projects

IBM - Extreme Blue (Canary Health Care Solution) Technical Intern

April, 2014 - Sept. 2014

- Used [teamwork](#) skills to create a [predictive, personalised](#) solution for [cancer survivors](#).
- Created a [hybrid application](#) for iOS and Android using [IBM Worklight](#).
- Lead [UX and UI design](#) of application to develop an [intuitive and interactive](#) user interface.
- Helped in the development of [predictive model](#) using [pattern recognition techniques](#) and IBM's Predictive Maintenance Quality (PMQ).
- Used [IBM Watson Visualization](#) (RAVE) to create visually appealing charts and graphs of user biometric history and PMQ results
- Pitched solution to various [IBM executives](#) at IBM headquarters.

Avoca Technologies - MyplayXplay

Junior Product Manager and Lead Developer

Jan. 2013 - April 2013 | Sept. 2013 - Jan. 2014

- Excelled in a [lead](#) role in bringing an [industry leading](#) product to market
- Involved in [cradle to cradle](#) development and production of system with Agile Methodologies
- Used extensive [Objective C and Xcode](#) knowledge to lead development team; developed a fully native [iOS solution](#)
- Lead [UX design and visual design](#) of iOS 6 and iOS 7 apps using powerful Adobe [Photoshop and Illustrator skills](#)
- Attended several [client meetings](#) with Premiership Football and professional Rugby teams

Engineering Project (3rd year) - Microbat Sonar Systems

Product Manager and Developer

April 2013-Sept. 2013

- Created an innovative product that used sonar technology to detect distance to objects for the [visually impaired](#)
- Used an [Arduino microcontroller and C programming](#) to translate data to [variable haptic feedback](#)

Lightitude Competition - Oara

Project Lead and Mechanical Designer

July 2012 - Sept 2012

- Created multiple [CAD models](#) of a lighting system for the arctic circle that uses [innovative engineering techniques](#) (induction circuits, vertical helix wind turbine, etc);
- Addressed possible [health and safety](#) concerns using an [FMECA](#) diagram and a [decision matrix](#) using sound engineering and technical analysis;

Mercatus Technologies - Price Chopper

Mobile Application Developer

Sept 2011-Dec 2011 | May 2012-Sept 2012

- Used [cutting edge technology](#) to develop internal app demos (QR, NFC, Blue tooth, Voice Recognition, Image Recognition, Geofencing);
- Employed [Agile and Rapid Prototyping methodologies](#) to create high level, interactive apps;

Ontario Institute of Cancer Research - Genome Project

Genome Software Developer

Jan 2011-Apr 2011

- Used [JavaScript](#) to implement touch gestures (iPad);
- Studied and applied [complex data structures](#) using hash tables and arrays to create the most [efficient system](#) to save genes and genome snapshot;

Education

University of Waterloo

Candidate for Bachelor of Applied Science, Systems Design Engineering

Expected graduation April 2015

Awards

- University of Waterloo President's Scholarship;
- University of Waterloo Carl A. Pollock Scholarship;
- Rotary Scholarship for Academic Excellence and Extracurricular Activities ;
- The Professional Engineering Ontario Scholarship;
- Book Award for Computer Science [95%] and Computer Engineering [93%] ;

Interests

- Brazilian Jiu Jitsu - (2.5. years)
- Muay Thai - (2 years)
- MMA - (2.5 years)
- 1st Degree Black Belt in Tae Kwon Do
- Reading, Drawing, Graphic Design, Cooking