

# 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

### 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
- Applied and refined C skills in various Research and Development projects; included [biometrics, statistics and multiple IP camera streaming](#).

## Engineering Project (3rd year) - Microbat Sonar Systems

Product Manager and Developer  
April 2013-Sept. 2013

- Explored the uses of [sonar](#) technology in [biometric](#) devices; researched [haptic feedback](#) techniques and their [User Experience](#) implications
- 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](#)
- Employed powerful product management skills to [lead development, CAD models and marketing video](#)
- Featured in the innovation and technology section of the University of Waterloo Imprint Article, at the following url: <http://www.uwimprint.ca/article/3305-systems-design-symposium-stretches-the-imagination>.

## Lightitude Competition - Oara

Project Lead and Mechanical Designer  
July 2012 - Sept 2012

- Developed [powerful problem solving skills](#);
- Researched the effects of minimal lighting on society and the environment;
- 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;
- Organized team meetings and delegated tasks

## Mercatus Technologies - Price Chopper

Mobile Application Developer  
Sept 2011-Dec 2011 | May 2012-Sept 2012

- Worked with the Mobile Engineering team over two co-op terms to [develop and support](#) various [iPhone, iPad and Android apps](#);
- Used [cutting edge technology](#) to develop internal app demos on Android and iOS platforms (QR, NFC, Bluetooth, 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);
- Developed a system which allows a user to select a favourite Gene and retain it in their session;
- 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 years)
- Muay Thai - (2 years)
- MMA - (2 years)
- 1st Degree Black Belt in Tae Kwon Do
- Reading, Drawing, Graphic Design, Cooking