Hi there.

I want to take this opportunity to introduce myself and explain a little bit why I think I'd be the perfect fit at IBM.

Over my past 6 coop terms I've been given the chance to work with a wide array of companies and work on many complex problems. I've done back-end programming for the Genome project housed at the Ontario Institute for Cancer Research, and then gone on to do product management, UX/UI design and programming for a small startup that develops systems for athletic organizations. My co-op terms cumulated with the IBM Extreme Blue program where I worked on a team developing a predictive solution for cancer survivors called Canary.

I embarked on a journey starting as a novice programmer, to now a seasoned veteran of the on-going battle programmers are waging on the digital world. I have developed strong object oriented programming skills as well understood and applied practical software design principals to my various projects. However, as a Systems Design Engineer I have managed to merge programming skills with design principals. I have developed a UI/UX knowledge that can only come from experiencing the success that comes with a beautifully designed and engineered product. I have also gained powerful problem solving skills from dealing with countless issues that I saw as Product Manager, Mobile Software Developer and every role in between. I have also been able to create and encourage cross-team collabrative environments in my many leadership roles through extracurricular activities.

Along the way I discovered a passion of mine to bridge a gap that exists in our society. The gap I'm talking about is the one between the physical world and the digital world. The amount of information that lies in the physical domain, the gigabytes and terabytes of data that we interact with using our senses is astounding. Consider how many sights we see, the voices we hear, the change in our body temperature as we react to our environment. As an engineer I see all of these as data points, places where we can extract information, analyze it and use it for a meaningful purpose.

After I graduate, I'd like to take my past experience in health care, as well as my considerable problem solving and user experience skills to work on projects involving Human and Computer Interaction in the medical world. My ideal job would involve working on ways to bring real world information into the digital world in meaningful and innovative ways.

Thanks for your consideration, Sukhwinder (Sonu) Lall

Sonu Lall

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Technical Skills

Web	OS
JavaScript/AJAX HTML/CSS MySQL/PHP/Perl ASP.Net/C#/Ruby	Windows MacOSX Linux FPGA
CAD	OOP
AutoCAD SolidWorks	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