

**Employer: IBM Canada Limited**

**Contact: Nelly Furtado**

**Job Title Software Developer - C/C++**

**Length of Work Term – 4 month co-op work term**

**Job description**

Employees in this role use design documentation, such as Functional Programming Specifications and high level design documents to implement the identified components. They also ensure that the implemented components are unit tested and ready to be integrated into the product. Software developers also provide fixes to defects identified by the verification team during the software development life cycle.

**Qualifications**

Qualifications:

(industry and/or classroom experience)

Experience with C++

Experience with Windows and/or Linux operating systems

Knowledge of IBM products

Knowledge of the software development cycle

Experience with various programming languages

Understanding of software engineering

Excellent verbal and written communications skills

Description:

DB2 for Linux, UNIX and Windows

DB2 data server is used daily by millions of users in the Fortune 1000.

Join some of the world's leading scientists and engineers in cutting-edge development on a highly profitable product that grows in revenue and market share every year. The DB2 development team works closely with applied research teams at the famed T.J. Watson Research Center in NY, and the Almaden Research Center in California. Our development team produces an exceptional volume of high-quality, creative code and produces a large number of patents every year. Through our Quality Assurance and Solutions Development teams we collaborate with other companies to develop and validate unique proof-of-concept prototypes and validate emerging technology.

**WHAT IBM OFFERS YOU:**

Work directly on products and services that affect our clients, while having access to cutting edge software technology.

Working at IBM will provide you with career development opportunities within a global organization that is genuinely committed to technology and innovation. When you join IBM you are also joining IBM's large student community called Future Blue. Future Blue provides networking opportunities with employees outside your team that could lead to future coop terms or even a permanent career! Future Blue also runs a lot of sporting and social events--a great way to meet fellow students and have fun at IBM. IBM offers a very diverse work environment which could include casual dress code and flexible working hours.

# Bryan Adams

123 Town Hall Street  
Scarborough, Ontario, M3J 2H2  
(416) 555 - 5555  
badams@utsc.utoronto.ca

Ms. Nelly Furtado  
Student Programs Coordinator  
IBM Canada Limited  
3600 Steeles Ave E.  
Markham, ON  
L3R 9Z7

January 19, 2012

Dear Ms. Furtado:

I am writing to apply for the summer position of Software Developer posted on the IBM employment opportunities list that I accessed through the co-op department at the University of Toronto.

By this summer I will have completed half of my fourth year of my undergraduate degree in Computer Science specializing in Software Engineering, giving me plenty of time to exercise my programming skills using different languages under many diverse environments. Managing to achieve my university's Honour Roll more than once, I am confident that my exceptional organizational and time management skills support IBM's need to meet aggressive deadlines as it services companies around the globe.

After years of study, I am keen to continue applying the wealth of knowledge acquired from school and past employment towards the technology industry in a company that has dedicated nearly a hundred years providing IT solutions for the entire world. With two co-op work terms completed thus far, I have already been introduced to how technology and business environments intertwine. During my first co-op work term, I enriched my capabilities with web development technologies which allowed me to produce reliable and interactive web content that is currently being used at the University of Toronto Scarborough campus on a daily basis.

Employment at Sky Mobile gave me plenty of time to familiarize myself with how corporations benefit from databases as my team was involved in helping maintain the systems and software used to support Business Intelligence. Having played the role of designer, developer and tester both in school and industry, and have become very familiar with all the phases of a project's life-cycle. In addition to learning useful technical skills, I exercised my well-rounded communication skills delivering presentations and demonstrations to colleagues and interfaced with clients to establish software specifications. These traits combined with my ability to learn quickly and work in an organized manner will be, without a doubt, an asset to your company.

I am confident that my combination of education, experience and skills makes me a competitive candidate and an excellent addition to IBM's software development team. I appreciate your consideration and I truly hope to meet with you to further discuss this exciting employment opportunity. It is IBM's mission to "strive to lead in the invention, development and manufacture of the industry's most advanced information technologies" and it is my mission to be a part of it.

Sincerely,

Bryan Adams

# Bryan Adams

123 Town Hall Street  
Scarborough, Ontario, M3J 2H2  
(416) 555 - 5555  
badams@utsc.utoronto.ca

## QUALIFICATIONS

### Technical Skills

- Experienced with the following technologies:  
C/C++, Java, Python, SQL, MATLAB, Informatica, LabView, 8051 Assembly, UNIX Shell Scripting, HTML, CSS, JSP, JavaScript, JavaBeans, Servlets, PHP, XML/XSL, DTD and Flash ActionScript
- Ability to operate in Windows, UNIX (Solaris) and Linux (Red Hat) environments and comfortable using IDEs (Eclipse) and team oriented version control (CVS)
- Fully adept at Microsoft Office suite (Access, Excel, FrontPage, PowerPoint, Publisher, Word)
- Strong knowledge of photo editing and animation tools such as Adobe Photoshop, Adobe Flash and 3D Studio Max
- Knowledgeable about internal PC components and hardware upgrading

### Interpersonal Skills

- Ability to learn new skills quickly as demonstrated through high grades and past employment as a web developer required to self-teach PHP and JavaScript in a very fast paced work environment
- Leadership qualities exercised while heading several internal initiatives at Telus producing formal reports and presentations for peers and management
- Heightened communication skills resulting from frequent collaborations with co-workers and clients in order to establish firm program specifications
- Comfortable and experienced working individually or in a team
- Excellent time management and organizational skills permitting timely project completions
- Highly creative as exhibited through several works of graphics and animation

## WORK EXPERIENCE

### Developer Analyst

Sky Mobile

January – August 2012

- Commended for being a quick learner, having strong communication skills and high initiative
- Performed very well as an Extract-Transform-Load (ETL) Developer Analyst in the Systems for Business Intelligence (SBI) department resulting in strengthened [Oracle] database and SQL familiarity
- Praised for quick turn-around times after having worked with several teams meeting aggressive project deadlines
- Independently performed quality assurance (QA) on existing mappings, successfully catching numerous minor bugs, mal-formatted code violations and sub-standard characteristics to be corrected by the developer before being launched into production
- Attracted very positive feedback from peers, particularly regarding oral communication skills, when partnered with a senior developer to conduct demonstrations and presentations

# Bryan Adams

(416) 555 -5555

badams@utsc.utoronto.ca

## Web Developer

University of Toronto Scarborough

May – August 2011

- Recognized for excellent communication, strong initiative and high dependability
- Effectively worked with a small professional team to design, implement and then thoroughly test large scale web applications coded primarily in PHP, SQL, JavaScript and Flash ActionScript
- Cleanly programmed a reliable back-end and designed and developed a user friendly graphical user interface for non-technical university faculty
- Routinely interfaced with clients to demonstrate program functionality and review program specifications from start to production of a project maintaining a friendly client relationship
- Successfully deployed a web application that permits university faculty and student organizations to submit important information displayed on digital screens throughout campus

## VOLUNTEER EXPERIENCE

### Librarian and Network Administrator Assistant

Victoria Park Collegiate Institute, Scarborough

January – June 2008

- Successfully planned, organized and implemented secondary school's website
- Trained librarian on how to utilize software such as Excel, Visual Case!, and Photoshop
- Performed numerous graphic manipulations using sophisticated photo editing software
- Thoroughly examined the school's computer network and reported any potential security flaws to the network administrator for action

## EDUCATION

Candidate, Honours Bachelor of Science

University of Toronto Scarborough

2009 – Present

- **Computer Science Specialist Co-op Program: Software Engineering stream; 4<sup>th</sup> year**
- CGPA of 3.6 on a 4.0 scale

## AWARDS / ACHIEVEMENTS

- Placed on 1<sup>st</sup> and 3<sup>rd</sup> year Honours List for outstanding academic achievement; rewarded with two In-Course Scholarships (\$1500)
- Merited the Queen Elizabeth II Reach for the Top Scholarship twice (\$4000)
- Earned a University of Toronto Grant (\$2600) and an Ontario Student Grant (\$1200)
- Awarded Admission Scholarship (\$1000)

## INTERESTS / ACTIVITIES

- Enjoy creating 3D models and animations using 3D Studio Max
- Admire next generation graphics by frequently reading publications on newest breakthroughs released online by nVidia and Microsoft DirectX
- Member of secondary school's robotics team which placed 3<sup>rd</sup> in region
- Placed 1<sup>st</sup> in chess across Toronto, both individually and as part of school's team (2007)
- Swimming; became a certified lifeguard (awarded National Lifeguard Service) (2006)