

# Hemal Patel

Computer Science and Business Administration | 3A

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## SKILLS

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- Programming Languages: C++, Java, Shell Scripting, Perl, Python, Ruby SQL, Javascript, XML, HTML, CSS, Objective-C, C#
- Frameworks & API's: REST, Django, Rails, Cocoa, Bootstrap, JSON, Apache Click, Facebook API,
- OOP, Linux/Unix Architecture, DB2, Oracle DB, PostgreSQL, MySQL, PostgreSQL

## WORK EXPERIENCE

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### National Bank Financial Ltd.

Toronto, ON

Application/Business Analyst, Global Equity Derivatives

(Jan 2014 – April 2014)

- Supported front office traders within the global equity derivatives department across Toronto, New York, Dublin and Montreal
- Increased front office trading volume on alternative trading systems, such as EquiLend, by up to 90% by making old processes more efficient
- Travelled to Montreal to work with settlements team to develop reporting solution and automate the Mark-to-Market manual process, effectively saving 4 hours of manual work per day
- Resolved close to 100 production issues under high pressure and stress environments

### IBM Canada Ltd.

Markham, ON

Student-on-Call, DB2 for Linux/Unix/Windows

(Sept 2013 – Dec 2013)

- Investigated test and code defects related to latest DB2 build
- Ensured that all test buckets associated with the latest fix-pack are running clean and maintained the latest software build
- Rewrote and implemented test cases related to newly implemented features in Perl and C

### IBM Canada Ltd.

Markham, ON

DB2 QA Developer Intern, DB2 for Linux/Unix/Windows

(May 2013 – Sept 2013)

- Developed test cases in Perl to test update, rollback, and backup features of DB2
- Communicated effectively with business clients to develop plans to add features to the DB2 software that increased efficiency in their organizations
- Developed Java code to add security and analytic features for DB2 Administration

## VOLUNTEER EXPERIENCE

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### Waterloo Banking Project

Waterloo, ON

Senior Director

(Oct 2012 – Present)

### Nspire Innovation Network

Toronto, ON

Web Developer and Software Engineer, Nspire Platform

(July 2013 – Dec 2013)

## EDUCATION

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### University of Waterloo and Wilfred Laurier University

Waterloo, ON

Candidate for Bachelor of Computer Science and Bachelor of Business Administration

April 2017

## SOFTWARE PROJECTS

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- Developed an iOS mobile application and a server backend in ruby-on-rails to recognize Estimote-iBeacon's and collect distance data to implement and improve proximity based marketing – [storetracker.herokuapp.com](http://storetracker.herokuapp.com)
  - Used data to develop heat maps and various data visualizations
- Budgeting tool web application – [uplan.waterloobanking.com](http://uplan.waterloobanking.com)
- Non-real time tetris game in C++ with X11 graphics
- Chess made in C++ with X11 graphics and various levels of computer artificial intelligence