

# Michelle Pokrass

mpokrass.com • michelle@mpokrass.com • github.com/mpokrass • 328 Regina St N, Waterloo

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## LANGUAGES

**Advanced:** Java, C • **Intermediate:** VBA, Scheme, CSS, HTML • **Basic:** JavaScript, C++, SQL

## TOOLS

Linux, Unix, Bash, MS Excel, MS Access, Bloomberg, jQuery, SVN, Git, jUnit, Maven

## WORK EXPERIENCE

**National Bank Financial Markets, Quantitative R&D**  
*Analyst*

**Toronto**  
April 2014 - August 2014

- Developed scalable Java software and web applications based on business logic requirements and provided technical solutions to business problems
- Worked on moving risk report development processes from MS Access and Excel with VBA to web server hosting with Java back end
- Developed interactive Excel VBA animations using Bloomberg data
- Followed the software development lifecycle including requirement gathering, design, implementation, and extensive testing
- Worked on streamlining Maven build dependencies using graph theory algorithms

## PROJECTS

**Android Application**  
*Pivot*

- Game utilizing a device's built in accelerometer to navigate a maze
- Implements a basic physics engine for collision checking, ball movement, and smooth bouncing off of walls
- Available on the Google play store

**Desktop Java Application**  
*Toggle*

- Word game where users attempt to find as many possible legal words with adjacent letters in a set time on a randomly generated board
- Implements a board solver algorithm to find all possible words on the board
- Includes many options, such as a game duration and minimum score on the board

**Desktop Java Application**  
*Freecell*

- Solitaire-based card game following the rules and logic of the traditional version
- Includes an undo option utilizing the stack data structure

## EDUCATION

**University of Waterloo**  
*Candidate for Bachelor of Computer Science, 3.95 GPA*

**Waterloo**  
2013 - 2018