MICHELLE POKRASS

mpokrass.com // michellepokrass@gmail.com // github.com/mpokrass

LANGUAGES

Advanced: Java, C, C++
Intermediate: VBA, Scheme, CSS, HTML, VTL

TOOLS

Git, Linux, Bash, Excel, Access, jQuery,
Eclipse, Perforce, Android Studio, SVN

WORK EXPERIENCE

Google   Waterloo
Software Developer Intern   January 2015 - April 2015

> Developed server infrastructure for a high volume and high revenue product receiving millions of queries per day

> Designed, documented, and implemented a change in memory management affecting the core serving path in order to reduce unnecessary complexity

> Used advanced C++ memory management and C++11 features to design efficient algorithms for new server code paths

> Analyzed and hardened an internal API to eliminate redundancy

National Bank Financial Markets, Quantitative R&D   Toronto
Analyst   April 2014 - August 2014

> Developed scalable Java software and web applications based on trading floor 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

> Worked on streamlining Maven build dependencies using graph theory topological sort

PROJECTS

Pivot (Android Application) github.com/mpokrass/Pivot

> Developed a game that utilizes a device's built in accelerometer to navigate a maze

> Implemented a physics engine for collision checking, ball movement, and smooth bouncing off of walls

Toggle (Desktop Java Application) github.com/mpokrass/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

> Implemented 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

EDUCATION

University of Waterloo   Waterloo
Candidate for Bachelor of Computer Science, 3.96 GPA   2013 - Present