

Kelvin Jiang

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TECHNICAL SKILLS

- **Languages:** Java, Python, C/C++, Scala, HTML/CSS, Javascript, XML
- **Frameworks and APIs:** PLAY for Java/Scala, REST, JSON, JQuery
- **Tools:** IntelliJ IDEA, Eclipse, YourKit, JMeter, PostgreSQL, Git/Mercurial version control, Vim, Sublime

EXPERIENCE

Developer (Co-op)

May. 2014 – Aug. 2014

Visier Analytics, Vancouver, BC

- Led the development of a fully configurable and automated email report generated using Scala's PLAY framework
- Implemented a diagnostics feedback system that allows developers to trace HTTP requests responsible for slow performance
- Fixed bugs and refactored code, improving performance time by up to 40%

PROJECTS

2048-tris

Mar. 2014

- Conceived and programmed a fusion of 2048 and Tetris in HTML, CSS and Javascript
- Used JavaScript to develop robust collision detection algorithms and handle edge cases in piece placement
- Won "Most Functional Hack" at HackWaterloo hackathon

GravSim

Jan. 2014 – Aug. 2014

- Created a solar system simulator in Python using Pygame for graphics
- Wrote a physics engine for gravitation between objects
- Implemented a fluid and responsive User Interface

Scribbler 2 Robot Project

Sep. 2013 – Dec. 2013

- Programmed a robot to autonomously navigate a maze using Python
- Wrote a script in Javascript to draw the robot's path based on distance travelled by its wheels
- Used SVN version control to keep track of the project

Open Defence

Oct. 2012 – Feb. 2013

- Programmed a game similar to Tower Defence in Java
- Implemented precise collision detection by checking intersections between polygons
- Developed enemy AI to optimize between offense and survivability

EDUCATION

Candidate for Bachelor of Software Engineering

Sep. 2013 – Apr. 2018 (expected)

University of Waterloo, Waterloo, ON

- Achieved a position on the Dean's honour list in Fall 2013

AWARDS AND ACHIEVEMENTS

Scored within top 1% of all participants – Euclid mathematics contest and SIN physics contest May. 2013

Certificate of Distinction – Canadian Computing Competition Feb. 2013

President's Scholarship – University of Waterloo May. 2013

Finalist – University of Toronto Chemistry and Physics provincials Oct. 2012 – May. 2013

INTERESTS

Hackathons, game design, mathematics, piano, music composition, skiing, gaming