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, JQuery, Bootstrap
- **Tools:** IntelliJ IDEA, Eclipse, YourKit Java Profiler, Apache JMeter, PostgreSQL, Git/Mercurial

EXPERIENCE

Developer – Visier Inc.   *Jan. 2015 – Apr. 2015*
Vancouver, BC

- Implemented an optimization that caches the rows used in calculations for client provided data filters, reducing data processing times by an average of 46%
- Led the development and wrote unit tests for a feature that allows users to hide data points on graphs in the client UI in a single click
- Implemented metadata generation within the server calculation engine for zero and null data values
- Extended the calculation engine to support calculations involving multiple currency codes for app localization

Developer – Visier Inc.   *May. 2014 – Aug. 2014*
Vancouver, BC

- Led the development of an automated tool that builds and sends email reports to customers containing data pulled from the server
- Reduced server initialization time by 30% using topological sorting to remove invalid calculated values stored in tables
- Fixed bugs and refactored code in Java/Scala backend and Actionscript/Flex frontend

PROJECTS

Quadtree simulator   *2014*
- A web app that simulates efficient collision detection between large amounts of 2D objects using QuadTrees

2048-tris   *2014*
- A fusion of 2048 and Tetris built in 24 hours using JavaScript for the HackWaterloo hackathon

GravSim   *2014*
- A gravity simulator with a custom Python physics engine with PyGame used for graphics

Scribbler 2 Robot Project   *2013*
- Programmed a robot to autonomously navigate a maze using Python

Open Defence   *2013*
- A game similar to Tower Defence programmed in Java with enemies that can attack towers

EDUCATION

Candidate for Bachelor of Software Engineering   *Sep. 2013 – Apr. 2018 (expected)*
University of Waterloo, Waterloo, ON

- Dean's honour list (Fall 2013)

AWARDS AND ACHIEVEMENTS

Most functional hack – 2048-tris at HackWaterloo   *2014*
Certificate of Distinction – Canadian Computing Competition   *2013*
Top 30 in Canada – Euclid Mathematics Contest   *2013*
Finalist – University of Toronto Chemistry and Physics provincials   *2013*

INTERESTS

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