

# Kelvin Jiang

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## SKILLS

**Languages:** Java, C/C++, Javascript (ES6), Python, Scala, SQL

**Frameworks:** React, Flux, Django, Java/Scala PLAY, Mocha.js, JQuery, D3, Selenium

**Tools:** Git/Mercurial, npm, MySQL, PostgreSQL, webpack, Apache JMeter

**Design:** HTML, CSS/SASS, Photoshop, Invision

## EXPERIENCE

### Top Hat – Full Stack Developer

Toronto, ON | *Sep. 2015 – Dec. 2015*

- Developed features for version 2 of the frontend, written in React and the Flux architecture
- Designed and built SVG-based visualizations using D3 in the new frontend
- Extended the backend API to support new frontend features and a feature flipper prototype
- Wrote unit tests for both the frontend and backend API, and end to end tests using Mocha.js, behave and Selenium

### Visier – Developer

Vancouver, BC | *May. 2014 – Apr. 2015*

- Reduced data aggregation HTTP request times by 46% by building a caching system for database rows excluded by data filters
- Implemented an automated service that builds and sends analytics reports using Scala's PLAY template
- Extended the backend to support new types of calculations for data aggregation
- Used topological sorting to reduce the removal time of invalid virtual columns by 30%

## PROJECTS

### Plague.io – Frontend Developer and UI Designer

Node.js, MongoDB, React, Socket.IO, SASS

- A game where players collaborate to eradicate diseases, similar to Pandemic
- Created specifications for API endpoints and the database model
- Designed and implemented a responsive UI with an SVG-based map

### 2048-tris

Javascript, jQuery | HackWaterloo 2014

- A spinoff of Tetris where players arrange and fuse blocks to create “2048”
- Winner of the “Most Functional Hack” award

### Quadtree simulator

Javascript, HTML5

- A visualization of quadtrees to simulate efficient collision detection between a large number of moving objects
- Frame-rate is doubled vs. collision detection without quadtrees

## EDUCATION

### University of Waterloo – Bachelor in Software Engineering

Waterloo, ON | *Expected Apr. 2018*

- Dean's honour list (Fall 2013)