

# JONATHAN ESTRELLA

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312 Thornhill Place — Waterloo, Ontario, N2T 0A9

## TECHNICAL SKILLS

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Languages	Python, JavaScript, PHP, Java, SQL, R
Frameworks and Libraries	Node.JS, AngularJS, Django, Laravel, Ionic, jQuery, Hadoop
Technologies	MySQL, PostgreSQL, MongoDB, git

## PROJECTS

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- Kenko - *Optimizing Meal Plans*** 2015  
*Python, HTML, JavaScript*  
A tool to create a healthy meal plan based on different dietary needs.
- S&P Leverage Simulator - *Simulating Leveraged Stock Trading*** 2015  
*R*  
Monte Carlo simulation to determine likelihood of success of day trading leveraged exchange traded funds.
- FollowChecker - *Tracks Tumblr Blog Statistics*** 2011  
*PHP, HTML*  
A tool to track which followers have been lost, new followers, and to see which followers do not follow you back. Had 100 unique hits per day over the course of 3 months.

## EXPERIENCE

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- WatrHub** August 2015 - December 2015  
*Data Algorithms Developer* *Python, Java, JavaScript, MongoDB, Hadoop*
- Changed web scraping tech stack and saved 50% of monthly server bill while improving performance
  - Wrote classifier for PDF files found on municipality websites, achieved an accuracy of 79%.
- Manulife RED Lab** January 2015 - May 2015  
*Solutions Prototype Developer* *JavaScript, Python, Java, AngularJS, MongoDB, MySQL*
- Worked in 2 week sprints to create 7 functional web and mobile prototypes
  - Performed research to identify key problems customers face and provided functioning prototypes to demonstrate solutions
- PetroPredict** May 2014 - August 2014  
*GIS/Software Developer* *Python, Django, PostgreSQL, MongoDB*
- Created efficient data parsing tools to extract and clean over 15 GB of data and export into a PostgreSQL database
  - Led the development of a customer facing dashboard to visualize petroleum production data
- Freelance Work** November 2013 - May 2014  
*Software Developer* *PHP, MySQL, Laravel, Yii*
- Implemented new REST APIs, wrote tests and documentation for existing projects
  - Developed communication skills working with customers to help determine their needs

## EDUCATION

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**University of Waterloo, Waterloo, Ontario**

2014 - Present

Candidate for Bachelor of Computer Science, Honours Computer Science, Co-op

**University of Waterloo, Waterloo, Ontario**

2013 - 2014

Candidate for Bachelor of Environmental Studies, Honours Geomatics, Co-op