

JONATHAN ESTRELLA

Computer Science 3A - 20510440

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TECHNICAL SKILLS

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

PROJECTS

- 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

- WatrHub** August 2015 - December 2015
Data Algorithms Developer *Python, Java, MongoDB, JavaScript, HTML, Hadoop*
- Changed web scraping tech stack and reduced monthly server bill by 50% while also improving performance
 - Wrote classifier for PDF files found on municipality websites, achieved an accuracy of 79%.
 - Created web tools for analysts to interact with data sets
- 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, JavaScript, MySQL, Laravel, Yii*
- Worked with several clients and implemented REST APIs, developed a form builder, and wrote documentation
 - See website for references and more details

EDUCATION

- 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