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Education

Finishing 4th year Bachelor of Mathematics Honours:
Computational and Applied Mathematics and Statistics (Co-op Option)   ***2010 – May 2015***
Carleton University, Ottawa ON
- CGPA of 10.62/12 (Letter Grade: A-): 2010, 2011, 2012, 2014 Dean's List

Work Experience

Teaching Assistant	**Carleton University**	**Fall 2012 - Present**
QA Automation Co-op	**360pi**	**Summers 2013-2014**
Campus Tour Guide	**Carleton University**	**Falls 2012-2013**
QA Analyst Co-op	**360pi**	**Summer 2012**
Tutor	**Self-Employed**	**Summers 2008-2013**
		[Ottawa, Ontario]

Projects (Hobby, Work)

Forum Scraper for Sentiment Analysis (Python, MongoDB, Flask)   *February 2015 – Now*
- Prototype of my NSERC thesis, which can crawl RealGM's NBA Draft board for each post in each topic, creating representations of posts, threads, and users in a database and display summarizing data using text analytics in a web application

Data Analysis for CIS Men's Basketball (Python, MongoDB, R)   *September 2013 – Now*
- Scrapes play-by-play and box scores for any available season, cleans the play-by-play using AI algorithms, and produces new metrics using the result such as unadjusted/adjusted +/-, % of contributions when scoring margin is within x, % of contributions in the 4th quarter

@astro_tweet_bot – twitter.com/astro_tweet_bot (Python, Flask)   *April 12th-13th 2014*
- Twitter bot that reads tweets from sky enthusiasts and responds with observable sky phenomena, built and deployed live for 2014 NASA Hackathon in two days with two others
- Identified sources of useful information, tonightssky.com and spaceweather.com/flybys, developed scrapers that take the website's information depending on the user's request

Maple Output Parser (Python)   *June 2014*
- Automates repetitive error-prone task of analyzing and categorizing factored polynomials

QA Tool for 360pi (Python, Tornado, MongoDB)   *December 2013 – May 2014*
- Created script to report on historical data generated from the tool
- Added functionality by implementing capability of on-demand specific job creation to complement the previously sole method of randomly creating jobs; designed new schema, proper handling of new type of jobs, implemented new UIs, updated reports display

Skills & Technologies Used

- Comfortable With: Python, MongoDB, R, HTML
- Past Experience: JavaScript, CSS, Node.js, C, C++, Java, SAS, MINITAB, SQLite, Tornado, Flask

Volunteer Activities

- Head of Logistics for CUMC 2014 hosted at Carleton University – approx. 200 attendees
- Organizer for OTTAnalytics 2015 at Carleton University - over 200 attendees
- Co-op Peer Helper for the 2012-2013 academic year
- Spoke at CUMC 2012 about mathematics of blackjack and at CUMC 2013 about advancements of computational statistics in basketball