

William Granados

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Education

University of Toronto 2015 - 2020
Candidate Honours BSc, Computer Science and Statistics

- Courses: Algorithm Design, Data Structures, OS, System Programming, Databases, Software Design, HCI, Networking, Computer & Network Security
- Teaching Assistant: Intro to CS I & II (F17-W18), Algorithm Design (F18)

Extracurricular

- Bronze Medallist, Canadian Computing Olympiad
 - Gold Division, USA Computing Olympiad
 - Honourable mention, East Central NA ACM-ICPC
 - Finalist, 2016 University of Michigan MHacks8
 - 5th Place, UTSC Startup Pitch Competition
 - Division Leader, **CSEC** (CS Enrichment Club)
 - Organizer, annual algorithms contest **UTSCode**
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Employment

- **Rubikloud** **Toronto, ON**
Software Engineer Intern - Platform Engineering Team *May 2018 - August 2018*
 - Reduced load time on obsolete tables with 10,000 rows from 1 minute to 1s by developing from scratch, a React & Redux table solution supporting: resizable columns, locked columns, and infinite scroll
 - Resolved several tickets regarding new table based features and fixing front-end bugs in production
 - Wrote UAT and Regression tests for ETL pipeline, and application layer identifying major bugs before new release. Refactored integration test suites for user accounts using Selenium, which identified 2 bugs
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Personal Projects

- **LetMeKnow**, News Aggregating Website & Entrepreneurship Incubator Project *November 2017*
 - Enabled **multiprocessing** for fetching relevant articles from Reddit API, tweets from Twitter's API, and images from Bing's API reducing load time from 20 seconds per user query to 3 seconds
 - Developed core news search utilities using Django for the RESTful API. Set up load balancer with Nginx on AWS cloud servers. Collaborated in porting the legacy frontend to Angular
 - **Quadbot**, Asynchronous Multiplatform Chat Bot *Aug 2016*
 - Designed a chat bot interface allowing usage of Markov chains, academic chat games, and server-side \LaTeX compilations with image hosting; more details and features available on **Github**
 - Automated unit and functional tests using pytest and Docker on **Travis CI**, with 46% test coverage
 - **Mobile Waste Wizard**, Waste Categorizing Mobile Application *October 2015*
 - Presented MVP to a committee at the City of Toronto in 2 months with weekly sprints, and stand ups
 - Incorporated Google Material Design guidelines to facilitate features for searching (by text, Google voice, and image recognition), tracking recent searches and language search settings
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Core Technical Skills

Languages/Markup: Python, C, C++, Scala, Java, Ruby, Bash, \LaTeX , Javascript, R, HTML, CSS, XML
Tools: Spark, Hadoop, Jupyter, Selenium, React, Redux, Angular, Nginx, Docker, SQL, Unix, Linux, Android
Other: Git, SVN, Mercurial, Jenkins, Travis CI, Agile, TDD, Coverage, Cloud Computing, Vim

Open Source Contributions

- **PokemonShowdown**, Online Pokemon Battle Simulator *Aug 2017*
 - Integrated **emoji filter restriction**, in use by 33% of all public chat rooms, helping mods deal with spam
 - Patched bug that allowed blacklisted users to be redirected to their blacklisted rooms by moderators