William Granados

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Education

University of Toronto   **2015 - 2019**
Candidate Honours BSc, Computer Science and Statistics

- Courses: Algorithm Design, Data Structures, Operating Systems, Software Design, Software Tools and Systems Programming, Numerical Methods, Intro to Statistics

Extracurricular

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

Core Technical Skills

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

Employment

- **Rubikloud**   **Toronto, ON**
  Software Engineering Intern   *May 2018 - August 2018*
  - Wrote regression tests for ETL pipeline feeding into the company's forecasting web application
  - R&D in a React & Redux table supporting 200+ rows, resizable columns and other client specific features
  - Refactored large portion of test suites (1000+ lines) for user account management using Selenium

- **University of Toronto**   **Toronto, ON**
  Teaching Assistant Intro to Computer Science I & II   *Sep 2017 – April 2018*
  - Incorporated responsive **website** using bootstrap and kept updated with notes on course content
  - Taught concepts such as –data structures, recursion, and runtime complexity– to groups of 30+ students
  - Lead discussions in course Piazza forum, tutorial hours, and practical hours to facilitate learning

Personal Projects

- **LetMeKnow**, News Aggregating Website & Entrepreneurship Incubator Project   *November 2017*
  - Decreased webpage load time by using AJAX requests, and parallelizing backend services
  - Facilitated continuous delivery by incorporating docker into services decreasing time to meet deliverables

- **Quadbot**, Asynchronous Multiplatform Chat Bot   *Aug 2016*
  - Designed a chat bot interface, allowing platforms with non-native support access to LATEX typesetting
  - Automated unit and functional tests using pytest and Docker on **Travis CI**, and set up coverage metrics

- **Mobile Waste Wizard**, Waste Categorizing Android Application   *October 2015*
  - Presented MVP to a committee at the City of Toronto in a 2 month time frame with weekly sprints
  - Incorporated Google Material Design elements into UI to facilitate features (search by text, voice, image)

Open Source Contributions

- **PokemonShowdown**, Online Pokemon Battle Simulator   *Aug 2017*
  - Integrated **emoji filtering** into chat room settings to help moderators deal with users spamming chat
  - Patched bug that allowed blacklisted users to be redirected to their blacklisted rooms by moderators

- **Matplotlib**, Python 2D Plotting Software   *November 2016*
  - Merged changes allowing Sphinx to display some sample plots on Matplotlib's official **website** to users