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, Human Computer Interaction, Intro Statistics
- Teaching Assistant: Intro to CS I & II (F17-W18), Algorithm Design (F18)

Extracurricular

- Bronze Medallist, Canadian Computing Olympiad
- Gold Division, USA Computing Olympiad
- Honorable mention, East Central NA ACM-ICPC
- Student Coach, ACM-ICPC team for **UTSC** campus
- Organizer, algorithms contest **UTSCode**, 150+ users
- Finalist, 2016 University of Michigan MHacks8
- 4th Place, UTSC Startup Pitch Competition

Employment

Rubikloud   **Toronto, ON**
Software Engineer Intern - Platform Engineering Team   *Summer 2018*

- Reduced load time on obsolete tables with 10,000 rows from 1 minute to 1 second by developing a paginated React & Redux table from scratch, supporting: resizable columns, locked columns, and infinite scroll
- Diagnosed and resolved critical front-end bugs in production before release, saving team hours of debugging
- 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

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 sentences generated through Markov chains, academic chat games, and server-side LaTeX compilations, and putnam problem generation; more features on **Github**
- Automated unit and functional tests using pytest and Docker on **Travis CI**, with 80% 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

Open Source Contributions

PokemonShowdown, Online Pokemon Battle Simulator   *Aug 2017- Present*

- Integrated **emoji filter restriction** to help moderators deal with spam; used by 33% of all public chat rooms
- Patched bug that allowed blacklisted users to be redirected to their blacklisted rooms by moderators
- Submitting code reviews and commits to ongoing rewrite of frontend from Backbone.js to Preact

Core Technical Skills

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