

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, Software Design, HCI, AI, Programming Languages, Compiler Optimization
- Teaching Assistant: Intro to CS I & II (F17-W18), Algorithm Design (F18), Data Structures (W19)

Extracurricular

- Bronze Medallist, Canadian Computing Olympiad
 - Gold Division, USA Computing Olympiad
 - Honorable mention, East Central NA ICPC
 - Student Coach, ICPC team placing 21st of 130 teams
 - Organizer, algorithms contest **UTSCode**, 150+ users
 - Finalist, 2016 University of Michigan MHacks8
 - 4th Place, UTSC Startup Pitch Competition
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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 3 seconds by paginating data and developing new React & Redux table which supports: 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
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Personal Projects

LetMeKnow, News Aggregating Website

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 RESTful API management and PostgreSQL for database queries. Managed hosting for website with load balancing through Nginx on a DigitalOcean VPS

Quadbot, Asynchronous Multiplatform Chat Bot

Aug 2016

- Designed a bot for chat interfaces like Discord, supporting asynchronous server-side \LaTeX compilations, math problem generation, Markov chain generated text, and Steam API integration; Serving 20+ concurrent users
- Automated functional test suite with 60% test coverage on **Travis CI**, and created docker and virtual machine environments for simple deployment for developers

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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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
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Core Technical Skills

Languages/Markup: Python, C, C++, Scala, Haskell, Java, Ruby, Bash, \LaTeX , Javascript, HTML, CSS, XML

Tools: Spark, Jupyter, Selenium, React, Redux, Angular, Django, Nginx, Docker, SQL, Linux, Android, LLVM

Other: Git, SVN, Mercurial, Jenkins, Travis CI, Agile, TDD, Coverage, Cloud Computing, Vim