

# William Granados

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## Education

### University of Toronto

2015 - 2020

*Candidate Honours BSc, Computer Science and Statistics*

- Courses: OS, Systems, Software Design, HCI, AI, Functional Programming, Compiler Optimization, Security, Machine Learning, Databases
- TA: Intro to CS, Algorithm Design, Data Structures

## 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
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## Employment

### Royal Bank of Canada, Software Developer Intern, Automation Solutions Team

Toronto, ON

*Tech: Elastic Search, Jenkins, Groovy, Docker, Python, Bash, Openshift, UrbanCodeDeploy, SSL*

Summer 2019

- Proposed and led development of production server deployment pipeline for Beats and Logstash used in monitoring of jmx metrics and logs from Jira & Jenkins, overall saving teams hours debugging failing servers
- Automated various tasks for audit requests and internal management like deletion of unused permission groups and unnecessary backups from Github tape storage saving the company approximately \$3000 monthly
- Volunteered to maintain open source fork of Searx and mentor participants for an internal company innovation challenge. Searx was adopted by several teams to resolve search problem at RBC with chat bots

### Rubikloud, Software Engineer Intern, Platform Engineering Team

Toronto, ON

*Tech: React, Redux, Jenkins, Selenium, Java, Scala, PostgreSQL, Jupyter, Spark, Docker*

Summer 2018

- Developed critical user-facing features (tables and notifications) requiring React/Redux and resolved several bugs before release. Providing users decreased initial load times by 90% speed and more useful feedback
  - Wrote regression tests for ETL pipeline (data layer) using Luigi, Yarn UI, and SQL queries. Also refactored integration tests for application layer using Selenium+Jenkins, identifying several bugs before release
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## Personal Projects

### Quadbot, Asynchronous Multiplatform Chat Bot

May 2019

*Tech: Python, Asyncio, Pytest, Searx, TravisCI, Coveralls, Docker*

- Supported several communities with commands for  $\LaTeX$  interpreter, curated search for sites like Steam, Arxiv, etc by designing bot to run on Discord, Slack, and Showdown. Thus engaging users in 300+ rooms
- Automated functional test suite with 80% test coverage on Travis CI, and created dockerized application allowing for simple deployment and horizontal scaling across multiple platforms

### LetMeKnow, News Aggregating Website

November 2017

*Tech: Python, Django, Angular, Javascript, PostgreSQL, Nginx, AWS*

- Implemented **multiprocessing** across web queries 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 AWS VPS

### Mobile Waste Wizard, Waste Categorizing Android Application

October 2015

*Tech: Android, Java*

- Redesigned UI by following the Google Material Design guidelines to facilitate search (by text, and voice)
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## Technical Skills

**Languages/Other:** C, C++, Ruby, Scala, Haskell, Bash,  $\LaTeX$ , HTML, CSS, XML, LLVM, Vim

**Open Source Contributions:** PokemonShowdown, Matplotlib