

# 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, Graphics
- 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, DevOps Services team

**Toronto, ON**

*Tech: Elastic Search, Jenkins, Groovy, Docker, Python, Bash, OpenShift*

*Summer 2019*

- Helped in diagnosis of failing internal services like Jira and Jenkins through deployment of elastic search monitoring with extensive on boarding material, saving teams countless hours during downtime
- Resolved information finding problem by designing slack bot with meta search engine capabilities to aggregate data from key resources like Github/Confluence/Intranet, and scaled to support over 1000 active daily users
- Saved company \$3000 monthly by automating deletion for petabytes of old backups from Github

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

**Toronto, ON**

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

*Summer 2018*

- Reduced initial load time on tables with 10,000 rows from 1 minute to 3 seconds by paginating data and developing new table features: resizable columns, locked columns, and paginated infinite scroll
  - Wrote UAT and Regression tests for ETL pipeline, and application layer identifying major bugs before new release. Refactored integration test suites for user accounts, which identified and resolved 2 major bugs
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## Personal Projects

### Quadbot, Asynchronous Multiplatform Chat Bot

*May 2019*

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

- Supporting 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 features for searching (by text, Google voice, and image recognition), tracking recent searches and language search settings
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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