# 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

## 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*

- Created deployment pipeline for metricbeat, filebeat, and logstash instances to 20+ servers in production to monitor internal services Jira & Jenkins. Saving SRE teams weeks from deprecated log retrieval procedures
- Automated various tasks for audit requests and internal management like deletion of unused permission groups and backups from Github saving the company approximately $3000 monthly.
- Maintained internal open source fork of **Searx**, updated capabilities to pull data from Slack, Confluence, and Github which was adopted by teams in RBC for chat bots and futher data aggregation purposes

**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

## Personal Projects

**Quadbot**, Asynchronous Multiplatform Chat Bot     *May 2019*
*Tech: Python, Asyncio, Pytest, Searx, TravisCI, Coveralls, Docker*

- Supporting several communities with commands for LaTeX interpretor, 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 searxh (by text, and voice)

## Technical Skills

**Languages/Other:** C, C++, Ruby, Scala, Haskell, Bash, LaTeX, HTML, CSS, XML, LLVM, Vim
**Open Source Contributions:** PokemonShowdown, Matplotlib