William Granados

Location Toronto, Canada • **Phone** +1(647) 741-8751 • **Email** me@wgma.ca **LinkedIn** linkedin.com/in/wlgranados • **Portfolio** wgma.ca • **Github** github.com/wlgranados

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

Employment

Rubikloud

Software Engineer Intern - Platform Engineering Team

Toronto, ON *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

Personal Projects

LetMeKnow, News Aggregating Website

November 2017

- 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 DigitalOcean VPS

Quadbot, Asynchronous Multiplatform Chat Bot

Aug 2016

- Designed a bot for chat interfaces like Discord, supporting asynchronous server-side L⁴TEX 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 enabling 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

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

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