William Granados

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Employment

TripAdvisor, Software Engineer II, Ad Experience   **Toronto, ON**
Tech: Java, React, Typescript, GraphQL, Hive, Tableau, Snowflake, Postgres, Google Ad Manager   *Oct 2020 - Present*

- Led successful features, experiments, and large code refactors for ads across the site. Significantly increasing ad revenue through improved impressions, viewability, and CTR
- Improved header bidding by cleaning up several ad targeting values and integrating a cookieless approach that associates users by their email addresses across different platforms.
- Increased reporting capability by fixing and creating new live traffic data collection pipelines for analysts, resulting in increased client retention through comprehensive tableau dashboards
- Independently planned and executed monthly roll-out of Travelers Choice campaigns. Coordinating redesign efforts, bug fixes, and server maintenance across our related products / microservices / databases

Royal Bank of Canada, Software Developer Intern, Devops Services Team   **Toronto, ON**
Tech: ElasticSearch, Jenkins, Groovy, Docker, Python, Bash, Openshift, UrbanCodeDeploy, OpenSSL, Aqua   *Summer 2019*

- Proposed and led development for production server deployment pipeline for Beats and Logstash used in monitoring of jmx metrics and logs from Jira & Jenkins. Overall saved teams hours debugging failing servers
- 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 problems at RBC with chat bots

Rubikloud (acquired by Kinaxis), 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. This provided users decreased initial load times speeds by 90% and beneficial 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 10+ communities with commands for a LaTeX interpretor, curated search for sites like Steam, Arxiv, etc by designing this bot to run on Discord, Slack, and Showdown

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Education	Achievements
University of Toronto 2015-2020	• Bronze Medallist, Canadian Computing Olympiad
Bachelors of Science, Computer Science and Statistics	• Gold Division, USA Computing Olympiad
• Courses: OS, Systems, Software Design, HCI, AI, Functional Programming, Compiler Optimization, Security, Databases, Intro to Software Engineering	• Honorable mention, East Central NA ICPC
	• Student Coach, ICPC team placing 21st of 130 teams
• TA: Intro to CS, Algorithm Design , Data Structures	• Organizer, algorithms contest **UTSCode**, 150+ users
	• Finalist, 2016 University of Michigan MHacks8

Technical Skills

Languages/Other: C, C++, Ruby, Scala, Spring, Haskell, LaTeX, HTML, CSS, XML, LLVM, Vim, MongoDB, Neo4j
Open Source Contributions: PokemonShowdown, Matplotlib, Pandas,