



## Amy Du

Fourth Year Computer Science Student

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 <https://github.com/yfngdu>

## SUMMARY OF QUALIFICATIONS

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- Full-stack web development experience during internships working with Ruby on Rails, React, and Redux.
- Proficient with languages Python, C++, and Java through coursework and projects.

## PROGRAMMING SKILLS

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- **Languages:** Ruby, Python, C++, Java, PHP, BASH, AngularJS, TypeScript, HTML, CSS,  $\text{\LaTeX}$
- **Frameworks:** Ruby on Rails, React, WordPress, Android, Laravel, Ionic
- **Technologies:** Redux, jQuery, Docker, PostgreSQL, MongoDB, MySQL, Firebase, RSpec, Eloquent, Selenium

## EDUCATION

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- **University of Waterloo**  
*Candidate for Bachelors of Mathematics, Honours Computer Science* *Sept. 2016 - May 2021*

## WORK EXPERIENCE

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- **Persona Identities Inc.** San Francisco, CA  
*Software Engineer* *May 2020 - Aug. 2020*
  - Drove and implemented project to send emails from the dashboard to shorten the time users spent on daily tasks.
  - Wrote design specifications and implemented sales enablement feature to freeze customer accounts after trial.
  - Provided geo-location fraud signals that customers used for stricter enforcement of authentic identity in Rails.
  - Enabled users to input custom options for phone carriers as an automated check on reports with Redux state.
- **Blindside Networks Inc.** Ottawa, ON  
*Web Applications Developer (RoR)* *Sept. 2019 - Dec. 2019*
  - Implemented WordPress plugin utilizing hooks and filters to allow users to create online conferences natively.
  - Developed widget and shortcode for users to embed conference login form on any page across their website.
  - Added OpenID Authentication and message signing and verification to Learning Tool Interoperability tool.
  - Improved user experience with a high emphasis on accessibility.
- **eleven-x** Waterloo, ON  
*Full Stack Developer* *Jan. 2019 - Apr. 2019*
  - Constructed decoders to process different types of encoded payloads from Internet of Things devices in Laravel.
  - Optimized back-end controllers and APIs in PHP to reduce processing time from minutes to seconds.
  - Implemented device and user specific alerts to display on a live dashboard using WebSocket.
  - Added scripts to reprocess selected devices' raw data with selection menu displays and progress bars.
- **Many Roads Studios** Toronto, ON  
*Full Stack Developer* *May 2018 - Aug. 2018*
  - Integrated Ionic with Firebase (NoSQL Database) to store user credentials and personalized information.
  - Tested Ionic App on Android and IOS devices to ensure product displayed expected behavior.
  - Wrote and ran MySQL migration scripts to update and revert database changes.
- **Avidbots Corp.** Kitchener, ON  
*Quality Assurance Analyst* *Sept. 2017 - Dec. 2017*
  - Permanently reduced regression from three days to one by writing Python automation scripts using Selenium.

## PROJECTS

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- **BigBlueButton WordPress Plugin** [https://github.com/yfngdu/wordpress-plugin\\_bigbluebutton](https://github.com/yfngdu/wordpress-plugin_bigbluebutton)  
An open source Github project that customizes the experience of creating online conferences in the BigBlueButton server and integrated the plugin into WordPress with capabilities based on user roles and permissions.
- **Ragdoll**  
A ragdoll toy in java (Android Studio) that uses scene graphs for translation, rotation, and scaling on individual body parts. The completed ragdoll was dressed in a striped suit and a top hat.