

Athena Liu

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LINKS

Website: athenalry.github.io

Github: [@athenalry](https://github.com/athenalry)

LinkedIn: [/in/athena-liu](https://in.linkedin.com/in/athena-liu)

TECHNICAL SKILLS

LANGUAGES:

C/C++ • Java • Python • JavaScript
HTML/CSS • PHP • \LaTeX • SQL

FRAMEWORKS & OTHER

Android • Angular • AWS • Azure
Git • Spring Boot • Bootstrap
Maven/Gradle • Raspberry Pi • Rasa
Firebase • BeautifulSoup • Mycroft
Jupyter Notebook

AWARDS

- SE Entrance Scholarship \$4000
- Loblaw Scholarship \$1500
- Math and Computer Science Graduation Awards
- 1st Place in Board-Wide Math Olympics
- President's Scholarship of Distinction, \$2000 + \$3000
- Lieutenant Governor General Community Volunteer Award
- PEO Engineering Competition - 1st in Presentation

EDUCATION

UNIVERSITY OF WATERLOO

BACHELOR OF SOFTWARE

ENGINEERING (HONOURS)

Fall 2019 - Expected Apr 2024

SIR WINSTON CHURCHILL

SECONDARY SCHOOL

2015-2019

Head Start Program (for high school students):

- Completed 2 Brock University CS Courses, achieving **98%** in Intro to CS and **89%** in Intro to Data Structures (Sept 2018 - Apr 2019)

WORK EXPERIENCE

INNOVATION DEVELOPER

Royal Bank of Canada

Jul 2019 - Aug 2019

- Used **HTML/CSS**, **TypeScript (Angular)**, and **Java (Spring)** to update features on an internal application for tracking the performance of **1700+** RBC co-ops in an Agile environment
- Redesigned the UI and implemented a new feature that allowed users to create new performance reviews
- Pitched a new feature that streamlines managers' reminder process of various tasks to executives

ANDROID DEVELOPER AND STUDENT RESEARCHER

Brock University

Sept 2018 - Jan 2019

- Developed an **Android** app, **Heart Mind Soul**, that helps youth balance their triangular health
- Improved more than 60 students' health in 40 days
- Built with Android Studio using **Java**, **XML** and **Firebase** in-app user engagement tracking | [See Demo](#)
- Received the Rotary Club of Niagara-on-the-Lake Science Award and the Martha Abra Use of Technology Award (\$500) at the Niagara Regional Science and Engineering Fair

WEB DEVELOPER

HoloEducat Inc.

Oct 2017 - Jun 2019

- Developed a login portal using **HTML**, **CSS**, **PHP**, **MySQL**, and **AWS S3** for users to upload images

PROJECTS AND HACKATHONS

YAKS VS YETIS

Sept 2018 - Jan 2019

- Used **Python** and **pygame** to build a Plants vs Zombies-style game in which players must defend yetis from yaks [See Demo](#) | [View Source Code](#)

INNOVOICER - RBC VOICE HACKATHON

Aug 2019

- Used **Python** and **Raspberry Pi** to build Innovoicer, a meeting room voice assistant with Mycroft's voice synthesis and Rasa's NLU
- Won the "Best use of IoT Award"

MICROSOFT AI GAMING COMPETITION

Apr 2019

- Wrote a game AI that played a Card Match Game using **Microsoft Azure - Computer Vision** and **Python**

LOCAL HACK DAY

Dec 2018

- Built an MVP of **ArcheryAR**, an augmented reality archery game, with **Unity** and **ARCore** (using **C#**)
- Won **Best Mobile Hack** and **2nd Place Overall**

EXTRACURRICULARS

- Academic Rep, Engineering Ambassador Sept 2019 - Dec 2019
- Founding President of STEM Club Sept 2017 - Jun 2019
- Head Editor of School Newspaper Sept 2017 - Jun 2019
- President of Math Club Sept 2017 - Jun 2019