

Arielle Shannon

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Academics

University of Waterloo

Bachelor of Computer Science, 3A

Waterloo, ON, Canada

2018 – 2023

Achievements

- Ranked 6th out of 3533 Canadian participants in the Canadian Computing Competition
- Bronze Medallist at the Canadian Computing Olympiad, a contest focused on data structures and algorithms
- Recipient of the Algonquin Prize, \$10,000 worth of support and mentorship, at Hacking Health Ottawa
- Recipient of the Digital Science Award at the STEM Fellowship Big Data Challenge
- Speaker at the SAS Women in Analytics Conference

Programming Experience

Languages and Technologies:

- Experienced with C++, Python, Java, Flask, Django, Android Studio, HTML/CSS/JS, SPARQL, SQL, Perforce, Git, Racket
- Have worked with Node.js, React, Tensorflow, Scikit, OpenCV, Octave, Google Cloud APIs, MMIX

Intel Corporation

Software Intern

Toronto, ON, Canada

May 2020 – August 2020

- Developed data correlation tools for FPGAs with the Programmable Solutions Group
- Used Python to compare data from silicon chips with simulated readings
- Helped maintain and update SQL databases that were used by our tools
- Used Flask to build a website to allow other groups to query our results

Agriculture and Agri-Food Canada

Software Engineer

Ottawa, ON, Canada

May 2019 – August 2019

- Used OCR and NLP algorithms to extract data from writing on specimen folders.
- Created data pipelines to automate the digitization of the government herbarium.
- Used Python and C++ to process information from reference books expand graph databases.
- Added features to the front end of our Flora of North America site.

Hatch Canada

Junior Engineer

Toronto, ON, Canada

July 2017

- Designed and implemented sample final projects for participants in the Hatch Alpha program.
- Wrote reports documenting the skills and requisite knowledge required to complete individual projects.

Sample of Personal Projects

Competitive Programming: Solutions to various programming problems

Checkers: Mobile app with various playable board game AIs, written in Java.

visynth: Django app that generates music based on uploaded pictures.

More projects are available on [my projects page](#) and [GitHub profile](#).

🐙 PuffyShoggoth/Competitive

🐙 PuffyShoggoth/Checkers

🐙 PuffyShoggoth/visynth