

# SEBASTIAN NEGULESCU

## 3A Computer Science, Honours Co-op

✉ [snegules@uwaterloo.ca](mailto:snegules@uwaterloo.ca)

🌐 [sebastiannegulescu.com](http://sebastiannegulescu.com)

📧 [sebastian-negulescu](#)

☎ (289) 221-4670

### SKILLS SUMMARY

- Technologies: JavaScript, Node, React, Java, Python, PyTorch, C++, C, HTML, CSS, R
- Experience working in an agile environment, using Jira, Git, and Bitbucket
- Tenacious work ethic, ramps up easily in new projects and technologies
- Team player with excellent communication, written and verbal

### EXPERIENCE

#### Nuvation—Software Developer for Embedded Devices (Intern) Jan–Apr 2022

- Built middleware for streaming datasets: Raspberry Pi, Python multiprocessing, MQTT
- Created XML API for training ML models in a distributed measurement system
- Designed and developed a library to abstract and control multiple sensors: Python

#### Accedo—Software Developer for Connected TV, Web (Intern) Jan–Apr 2021

- Developed the Equinox Fitness Android TV application using React and GraphQL
- Implemented design changes on a custom skew of Dish Networks' streaming app
- Ported a major American television network's streaming application to Comcast X1
- Investigated the benefits and drawbacks among various streaming technologies

#### Accedo—Software Developer, Connected TV (Intern) May–Aug 2020

- Resolved defects for SportsNet streaming applications using JavaScript and TypeScript
- Added SmoothStream support and reworked analytics on SportsNet's PS4 application
- Solved live video deep linking issues on SportsNet's Comcast X1 (Ignite TV) application
- Met with large OEM clients to define project requirements and discuss goals

#### Sacred Heart CHS, Coding Club—Founder and President Sep 2018–Jun 2019

- Taught Python to 65 students, 2 contest teams (8 students)—Ontario Semi-finalists
- Coordinated team projects: Twitter bot that reads and tweets game scores

### PORTFOLIO

#### Hackathons

- Hack the North, Online—pondnet: crowdsourced open pond hockey arenas and displayed them in a Google Maps container using React JS and Node.js Sep 2021
- Hack the North, Online—Vacation Advisor: location recommendations with abilities to take photos in-app using Swift Jan 2021
- Hack the North, Waterloo—QueueNA: live questions streaming and polling Firebase, React integration (award winner) Sep 2019
- HackCode, McMaster—web-based rewards for environmental activities Sep 2017

#### Software Projects

Aug 2017–present

- Implemented the Chip-8 instruction set in an emulator using C++ and SDL2
- Built an online version of the King's Cup drinking game using Node.js and Express JS
- Created a Tetris variant using JavaScript
- Used Java to create and visualize an algorithm that builds and solves mazes

### INTERESTS

Competitive programming  
Hockey, tennis, skiing  
Camping and hiking  
Photography

### EDUCATION

#### University of Waterloo, Computer Science Honours Co-op (2019–present)

- René Descartes National Scholarship (1% of newly enrolled students)
- President's Entrance Scholarship
- Excellent academic standing

#### Sacred Heart CHS, Newmarket, AP Program (2015–2019)

- Schulich Leader Nominee 2019 (best STEM student in high school)
- Multiple Distinctions (top 25%) in Waterloo programming contests 2017–2019
- Member of Ontario Semi-finalist Team in the ECOO programming contest 2018–2019
- Multiple Distinctions and Honour Rolls (top 1%) in Waterloo math contests 2015–2019
- Athletic Council member 2015–2016

#### Shad Canada leadership program for high achievers, University of Saskatchewan (July 2017)

- Best engineering design award
- Shad Ambassador (volunteer): presented the program, connected with high school counsellors

### CERTIFICATIONS

#### Lifeguard Society (2018)

- Certified CPR-C, Standard First Aid
- Certified Lifeguard