

## ABOUT

A hard-working and goal-oriented computer scientist with extensive professional and academic experience. Commended for productivity, affability, leadership, and diagnostic skills. Driven by interests in design, integration, and community.

## EDUCATION

**Master of Science: Computer Science**  
*August, 2020 University of Guelph*  
 >90% average  
 Specialized in Human Computer Interaction

**Bachelor Of Computing**  
*June, 2016 University of Guelph*  
 >80% average  
 Minor in Economics  
 Certification in Business Administration

## TECHNICAL SKILLS

**Programming:** Python3 · JavaScript(ES6)  
 · C · R · Shell · Java · YAML

**Web Development:** CSS3 · SASS · HTML5 · Apache · Nginx · Jekyll · Wordpress · Bootstrap

**Databases:** MySQL · PostgreSQL

**Methodologies:** Agile · Scrum · ITIL · WCAG · AODA · Test-Driven Development

**Tools:** AWS · Firebase · Ansible · Docker · Office 365 · iSuite · GSuite

& More!

## CERTIFICATIONS

ITIL: IT Service Management  
 Emergency First Aid  
 Standard First Aid  
 CPR (Class C)  
 Ski Instructor & Coach (Level 1)  
 ORCKA Moving-water (Level 1)  
 ORCKA Flat-water (Level 2)  
 Drivers License (Class C)

## EXPERIENCE

### Junior Webmaster

*Jan, 2020 - Present*

Responsible for the maintenance, stability, and optimization of over 15 City websites. Focussed on meeting AODA compliance through removal of WCAG level AA errors as well as implementing performance and security improvements.

**City of Guelph**

*Guelph, ON*

### Broadband Research Intern · RightMesh

*Jan, 2019 - Dec, 2019*

The first intern selected for the Mitacs Accelerate Grant, funding a collaborative project between UoG and Left.io. Led the design, development, deployment and maintenance of the Rigolet Internet Assessment Initiative to measure and analyze broadband in Rigolet, Labrador.

**Mitacs Accelerate**

*Ottawa, ON*

### Android & Web Developer · The eNuk Project

*Sept, 2017 - Dec, 2018*

Led the development team of the eNuk, the Inuit-led environmental monitoring application, which involved collecting specifications, building prototypes and ultimately designing and developing the iOS and Android applications and web-portal. This involved collaborated with an external development team who was utilizing our API. I also personally built and designed the project websites, and connected it to a CMS to allow for editing by team members.

**Guelph & Memorial Universities**

*Guelph, ON & St. Johns, NF*

### Teaching Assistant · CIS\*3750 System Design & Analysis

*Sept, 2017 - Dec, 2018*

Aided Dr. Gillis & Mr. Rea in holding office hours, creating curriculums, slides, and materials, managing emails, designing and marking student assessments, invigilating exams, and teaching weekly labs. The course explored the broad methods of developing and designing Information Systems, such as UI design, prototyping, Agile development and AODA/WCAG compliance.

**University of Guelph**

*Guelph, ON*

### Foreman & Quality-Assurance Officer

*May - July, 2015, 2016 & 2017*

Managed a 10.5 million tree planting contract and 60 employees under the MNR. Responsible for the training, production, tree quality, and wellbeing of 16 planters.

**Treeline Reforestation**

*Englehart, ON*

### Teaching & Research Assistant · ICON Ideas Congress

*Jan, 2016 - May, 2016*

The ICON classroom connects students with community partners to address social issues. Assisted with teaching in the classroom and researching multidisciplinary pedagogy.

**University of Guelph**

*Guelph, ON*

### Teaching Assistant · CIS\*2050 Computers and Society

*Jan - May, 2015 & 2016*

Aided Dr. Chiu in; holding office hours, creating curriculums, and materials, managing emails, marking assignments, and invigilating examinations.

**University of Guelph**

*Guelph, ON*

### General Manager

*Oct, 2011 - June, 2012*

Responsible for all financial, legal, operational and staffing of bar and hostel.

**The Magic Sponge Bar and Hostel**

*Kampot, Cambodia*

## ★ HONOURS, AWARDS & SCHOLARSHIPS

### School of Computer Science Teaching Assistant Award of Excellence

**2019**

Recognized for "outstanding contributions in improving the undergraduate learning environment"

### Guelph Graduate Tuition Scholarship · \$18,000.00

**2017 - 2019**

Nominated by the School of Computer Science to recruit top students within the field.

### Guelph Chamber of Commerce Awards of Excellence: Young Innovator Award

**2018**

Annual Awards of Excellence is Guelph's appreciation event for Innovative community members.

### Northern Scientific Training Program Grant · \$3,604.45

**2017 & 2018**

Sponsored by Polar Knowledge Canada to foster science and technology in Canada's North.

### Physical Science & Engineering Research Centre Travel Grant · \$1000.00

**2018**

Funded my presentation at the People, Places and Public Engagement Conference.

## Net Zero Hackathon · 1st Place & Human Factor Award

Won 1st and the Human Factor Award for our Android app named ElecTrickle, which helps communication between users and energy companies. **2015**

## Summit of Universities Fighting World Hunger's Pitch for Progress · 1st Place

Won 1st and \$2000 at the CBASE for a project that best focussed on social and environmental change, hosted at UoG. **2015**

## Feeding 9 Billion Hack-a-thon · 1st Place

Won 1st and \$1000 for Sustain-a-Bin, the autonomous compost bin which displays the cost of food waste to consumers. **2014**

## Elevator Project: Guelph's Community Launchpad · \$1,500.00

Sustain-a-Bin was within the top 15 most interesting projects, voted by the community of Guelph. **2015**

## ♥ VOLUNTEER EXPERIENCE

### Public Relations and Outreach

2014 - 2019

Met with potential students and parents to talk about the School of Computer Science program at UoG.

**Ontario Universities Fair**

Toronto, ON

### Computer Science Educator

2018 - 2019

Provided lessons to Inuit children on Scratch, Raspberry Pis, RightMesh wireless mobile mesh networking, and more.

**Northern Lights Academy**

Rigolet, NF

### Food Vending Support

2014 - 2019

Helped organize and restock food vendors with ice, propane, refrigerated food, plates and cutlery at Hillside Festival.

**Hillside Festival**

Guelph, ON

### Lead Coordinator

2015 - 2016

A student run biweekly tech talk where students meet to share CompSci stories, projects, problems and presentations.

**Guelph Coding Community**

Guelph, ON

### Secretary

2015 - 2016

Voted into Secretary of SOCIS; an organization focussed on running and managing student outreach events.

**Society of Computer and Information Science**

Guelph, ON

## 📄 PUBLICATIONS

### The CIS\*3750 Systems Analysis & Design in Applications Student Manual

Gillis, D., & Durish, N.

**Non-Refereed**

2019

### The eNuk Environmental and Health Monitoring Program

*Polar Knowledge: Inaugural Edition · Article*

Kipp, A., Cunsolo, A., Gillis, D., Sawatzky, A., Cook, O., Durish, N., Shiwak I., Flowers C., Rigolet Inuit Community Government & Wood M.

**Refereed**

2018

## 📺 NOTABLE PRESENTATIONS

### Building Foundational Skills & Community-Engaged Software Design

*Spring IT Conference · Invited Keynote*

Durish, N. & Gillis, D.

**Guelph, ON**

2019

### Supporting Community-Based Monitoring With Technology In The Circumpolar North.

*Labrador Research Forum*

Durish, N. & Gillis, D.

**Happy Valley-Goose Bay, NF**

2019

### Using Mesh Technology to Support Climate Change Monitoring.

*Indigenous Mapping Conference*

Rourke, K., Durish, N., & Gillis, D.

**Montreal, QB**

2018

### Supporting Community-Based Monitoring in the Circumpolar North.

*ArcticNet*

Durish, N. & Gillis, D.

**Ottawa, ON**

2018

### Bridging the Digital Divide and Improving Community-Based Monitoring Programs in the Circumpolar North.

*People, Places and Public Engagement*

Durish, N., Seymour, F., Rourke, K., Raturi, S., Hughes, B., Harper, S., Cunsolo, A., Flowers, F., Shiwak, I., Wood, M., Gillis, D. & Ernst, J.

**St, Johns, NL**

2018

### Community Engaged Computer Science: Lessons Learned in the Pursuit of Social Justice.

*g0v-zero Summit · Invited Presentation*

Durish, N. & Gillis, D.

**Taipei, Taiwan**

2018