

NIC DURISH

DESIGNER · MANAGER
COMPUTER SCIENTIST



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STRENGTHS

Leadership
Adaptability & Learning
Teamwork & Collaboration
Problem Solving & Analytics
Project & Personnel Management
Communication & Public Speaking

TECHNICAL SKILLS

Python3 · Java · JS · C · R
CSS3 · SASS · HTML5
MySQL · PostgreSQL
Apache · Nginx · Jekyll
Shell · YAML · Regex
AWS · Firebase · Ansible · Docker
Office 365 · iSuite · GSuite
Agile · ITIL
& More!

CERTIFICATIONS

Emergency First Aid
Standard First Aid
CPR (Class C)
Ski Instructor (Level 1)
Ski Coach (Level 1)
ORCKA Moving-water (Level 1)
ORCKA Flat-water (Level 2)
Drivers License (Class C)



EDUCATION

- 2019
2017
MASTER OF SCIENCE: COMPUTER SCIENCE UNIVERSITY OF GUELPH
90%+ Average · Specialization in Human Computer Interaction
Research focus on the Digital Divide; the impacts and causes of disparate access to digital systems and literacy within Canada.
- 2016
2012
BACHELOR OF COMPUTING UNIVERSITY OF GUELPH
Minor in Economics & Certification in Business Administration
80%+ Average



EXPERIENCE

- Present
2018
DEVELOPER & RESEARCH INTERNSHIP MITACS ACCELERATE · OTTAWA, ON
Left.io & University of Guelph - The RightMesh Project
The first intern selected for the \$2.2 million Mitacs Accelerate Grant funding a collaborative research project between UoG and the Left.io office in Maple Ridge, BC. where I split my time helping to develop the RightMesh Mobile Mesh Network.
- 2018
2017
PROJECT MANAGER & RESEARCH ASSISTANT UNIVERSITY OF GUELPH · GUELPH, ON
The eNuk Project
The eNuk web and mobile application is designed to track and analyze changes in climate and environment, and the resulting cultural, physical, and mental health impacts. This project is being developed for and by the Inuit of Rigolet, Labrador.
- 2018
2017
TEACHING ASSISTANT UNIVERSITY OF GUELPH · GUELPH, ON
*CIS*3750 - System Design & Analysis (2 semesters)*
Aided Dr. Gillis & Mr. Rea in holding office hours, creating curriculums, slides, and materials, managing email correspondences, designing and marking student assignments and tests, invigilating examinations, and teaching weekly labs.
- 2018
DEVELOPER & RESEARCH ASSISTANT MEMORIAL UNIVERSITY · ST JOHNS, NF
The eNuk.eco Webpage
Hired by Dr. Ashlee Cunsolo, director of the Labrador Institute, to build a static website for the eNuk Project. The website was designed and built by hand, and connected to the WordPress CMS to allow for editing by non-programmers.
- 2017
2015
FOREMAN & QA OFFICER TREELINE REFORESTATION · ENGLEHART, ON
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.
- 2016
TEACHING & RESEARCH ASSISTANT UNIVERSITY OF GUELPH · GUELPH, ON
ICON: Ideas Congress
A multidisciplinary course, that challenges students to address social issues by connecting them with community partners. Responsibilities included assisting teaching in the classroom and performing research on multidisciplinary pedagogy.
- 2016
LIFT OPERATOR MOUNT WASHINGTON ALPINE RESORT · COMOX VALLEY, BC
Operated and maintained the lifts, welcomed and helped patrons to safely mount the lifts, operated lift controls, validated tickets, and assisted ski-patrol.
- 2016
2015
TEACHING ASSISTANT UNIVERSITY OF GUELPH · GUELPH, ON
*CIS*2050 - Computers and Society (2 semesters)*
Aided Dr. Chiu in; holding office hours, creating curriculums, and materials, managing emails, marking assignments, and invigilating examinations.
- 2014
2013
SILVICULTURIST TREELINE REFORESTATION · ENGLEHART, ON
Personally planted over 300,000 trees over 2 seasons with long hours in arduous conditions through utilizing good work ethic and time management.
- 2012
BAR & HOSTEL MANAGER THE MAGIC SPONGE · KAMPOT, CAMBODIA
Responsible for all staff and operations of the bar and hostel as well as financial and legal matters.
- 2011
2009
CAMP COUNSELLOR, SWIM INSTRUCTOR & LIFEGUARD YMCA · SUDBURY & BELLEVILLE, ON
Responsible for the wellbeing, happiness, and learning of the kids in my class or cabin. Also taught; canoeing, windsurfing, rock climbing and outdoor skills.



VOLUNTEER EXPERIENCE

- 2018** **MASTER OF CEREMONIES** SOCS ORIENTATION WEEK OUTREACH EVENT · UNIVERSITY OF GUELPH, ON
Helped facilitate and MC some of the School of Computer Science Orientation Week events.
- 2018** **COMPUTER SCIENCE EDUCATOR** NORTHERN LIGHTS ACADEMY · RIGOLET, NF
Provided lessons to Inuit children on Scratch, Raspberry Pis, RightMesh wireless mobile mesh networking, and more.
- 2018** **PUBLIC RELATIONS AND OUTREACH** ONTARIO UNIVERSITIES FAIR · TORONTO, ON
2015 Met with potential students and parents about the School of Computer Science program at UoG.
- 2018** **FOOD VENDING SUPPORT** HILLSIDE FESTIVAL · GUELPH, ON
2015 Helped organize and restock food vendors with ice, propane, refrigerated food, plates and cutlery at Hillside Festival.
- 2017** **MENTOR** IMPROVE LIFE HACKATHON · UNIVERSITY OF GUELPH, ON
Helped students with ideation, problem solving, communication, team work, and product development.
- 2016** **MENTOR** FEEDING 9 BILLION CHALLENGE · UNIVERSITY OF GUELPH, ON
Helped students with ideation, problem solving, communication, team work, and product development.
- 2016** **LEAD COORDINATOR** GUELPH CODING COMMUNITY · UNIVERSITY OF GUELPH, ON
2015 A student run biweekly tech talk where students meet to share CompSci stories, projects, problems and presentations.
- 2016** **SECRETARY** SOCIETY OF COMPUTER AND INFORMATION SCIENCE · UNIVERSITY OF GUELPH, ON
2015 Voted into Secretary of SOCIS; an organization focussed on running and managing student outreach events.



PROJECTS

- Present** **LAWRENCEASSIST**
2018 A custom home automation system deployed on a Raspberry Pi using YAML and hass.io.
- Present** **WILDYBUS**
2018 A fully functional, off-grid home built inside a 1991 International School Bus (Instagram: @wildy_bus).
- 2016** **SUSTAIN-A-BIN**
2014 Tech start-up project focused on food waste reduction and consumer behaviour modification.
- 2015** **ELECTRICKLE**
Android application focussed on energy conservation and reduction at the consumer level.



HONOURS & AWARDS

- 2018** **YOUNG INNOVATOR AWARD · GUELPH CHAMBER OF COMMERCE AWARDS OF EXCELLENCE** RECIPIENT
The annual Awards of Excellence is Guelph's appreciation event of the year for Innovative community members.
- 2018** **CPHAZ SYMPOSIUM STUDENT SPEED PRESENTATIONS** 3RD PLACE · \$100
Won 3rd place in the Student Presentation Competition at the Centre for Public Health and Zoonoses Symposium.
- 2018** **SCHOOL OF COMPUTER SCIENCE TEACHING ASSISTANT AWARD OF EXCELLENCE** NOMINATION
The University of Guelph recognized "outstanding contributions in improving the undergraduate learning environment".
- 2015** **COMPUTER SCIENCE GAMES · SOCIAL COMPUTING COMPETITION** 12TH PLACE
Represented UoG in the Web and Database Design Competition, placing 19th and 4th out of 28 universities.
- 2015** **SCOTIABANK ECOLIVING AWARD** TOP 3 FINALIST
The ElecTrickle Team won 3rd nationally, receiving funding and a meeting with Arlene Dickinson for mobile application.
- 2015** **HUMAN FACTOR AWARD** RECIPIENT · \$200
Awarded to the ElecTrickle team for a computer science project that best took human factors into consideration.
- 2015** **NET ZERO HACKATHON** 1ST PLACE · \$1500
Won 1st for our Android app named ElecTrickle, which helps communication between users and energy companies.
- 2015** **10TH ANNUAL UNIVERSITIES FIGHTING WORLD HUNGER'S PITCH FOR PROGRESS** 1ST PLACE · \$2000
Won 1st and \$2000 at the CBASE for a project that best focussed on social and environmental change, hosted at UoG.
- 2015** **PLANTER'S CHOICE AWARD · TREELINE REFORESTATION** RECIPIENT
Voted Management Member of the Year after working as a foreman for Treeline Reforestation.
- 2014** **FEEDING 9 BILLION CHALLENGE** 1ST PLACE · \$1000
Won 1st for Sustain-a-Bin, the autonomous compost bin which displays the cost of food waste to consumers.
- 2009** **TOP SKI RACER & JONATHON SWALLOW AWARDS - BATAWA SKI TEAM** RECIPIENT
2007 Received Multiple Top Racer and Swallow Awards for my successes and leadership on the Batawa Alpine Racing Team.

\$ SCHOLARSHIPS & GRANTS

2019	GUELPH GRADUATE TUITION SCHOLARSHIP	\$18,000
2017	The GTS is awarded to a single student per year, nominated by their college to recruit top students within their field.	
2018	PHYSICAL SCIENCE & ENGINEERING EDUCATION RESEARCH CENTRE TRAVEL GRANT	\$1,000
	Awarded to fund my attendance and presentation at the People, Places and Public Engagement Conference.	
2018	SCHOOL OF COMPUTER SCIENCE TRAVEL GRANT	\$500
	The SoCS Travel grant is awarded to student for conferences relating to the field of computer science.	
2018	NATIONAL SCIENTIFIC TRAINING PROGRAM GRANT	\$2,804.45
	Sponsored by Polar Knowledge Canada (POLAR) to foster science and technology in Canada's North.	
2015	ELEVATOR PROJECT: GUELPH'S COMMUNITY LAUNCHPAD	\$1,500
	Sustain-a-Bin was within the top 15 most interesting projects, voted by the community of Guelph.	

📄 PUBLICATIONS

2019	THE CIS*3750 SYSTEMS ANALYSIS & DESIGN IN APPLICATIONS STUDENT MANUAL	NON-REFEREED
	<i>Gillis, D., & Durish, N.</i>	
2018	POLAR KNOWLEDGE: INAUGURAL EDITION · ARTICLE	REFEREED
	The eNuk Environmental and Health Monitoring Program <i>Kipp, A., Cunsolo, A., Gillis, D., Sawatzky, A., Cook, O., Durish N., Shiwak I., Flowers C., Rigolet Inuit Community Government & Wood M.</i>	

📺 PRESENTATIONS

2019	SPRING IT CONFERENCE · INVITED KEYNOTE	GUELPH, ON
	Building Foundational Skills & Community Engaged Software Design <i>Durish, N. & Gillis, D.</i>	
2019	LABRADOR RESEARCH FORUM · ORAL PRESENTATION	PENDING · HAPPY VALLEY-GOOSE BAY, NF
	Supporting Community-Based Monitoring With Technology In The Circumpolar North. <i>Durish, N. & Gillis, D.</i>	
2018	WESTERN STUDENT RESEARCH CONFERENCE	PENDING · LONDON, ON
	Bridging the Digital Divide with Mobile Ad Hoc Networks in the Circumpolar North. <i>Asch, M., Rourke, K., Seymour, F., Durish, N., Flowers, C., Wood, M., Gillis, D. & Ernst, J.</i>	
2018	INDIGENOUS MAPPING CONFERENCE · INVITED WORKSHOP	MONTREAL, QB
	Ideation Process, Identifying Problems RightMesh Can Solve I & II. <i>Gillis, D., Rourke, K., & Durish, N.</i>	
2018	COMMUNITY-BASED ENVIRONMENTAL MONITORING WORKSHOP · INVITED WORKSHOP	IQALUIT, NU
	Developing an Inuit-led Community Health and Environment Monitoring System using MANETS in Rigolet, Nunatsiavut. <i>Durish, N. & Gillis, D.</i>	
2018	ARCTICNET · ORAL PRESENTATION	OTTAWA, ON
	Supporting Community-Based Monitoring in the Circumpolar North. <i>Gillis, D. & Durish, N.</i>	
2018	PEOPLE, PLACES AND PUBLIC ENGAGEMENT · ORAL PRESENTATION	ST. JOHNS, NL
	Bridging the Digital Divide and Improving Community-Based Monitoring Programs in the Circumpolar North. <i>Durish, N., Seymour, F., Rourke, K., Raturi, S., Hughes, B., Harper S., Cunsolo A., Flowers F., Shiwak I., Wood M., Rigolet Inuit Community Government, Gillis D. & Ernst J.</i>	
	How Community Engaged Computer Science Can Change the World <i>Gillis, D., Durish, N., Cook, O., Seymour, F., Gascho, J., Fontanna J., Houlding P., & Williamson D.</i>	
2018	GOV-ZERO SUMMIT · ORAL PRESENTATION	INVITATION · TAIPEI, TAIWAN
	Community Engaged Computer Science: Lessons Learned in the Pursuit of Social Justice <i>Durish, N. & Gillis, D.</i>	
2018	INDIGENOUS MAPPING CONFERENCE · ORAL PRESENTATION	OTTAWA, ON
	Using Mesh Technology to Support Climate Change Monitoring. <i>Durish, N., Rourke, K. & Gillis, D.</i>	
2018	CENTRE FOR PUBLIC HEALTH AND ZOONOSIS SYMPOSIUM · ORAL PRESENTATION	GUELPH, ON
	Potential Health Impacts of the Digital Divide. <i>Durish, N., Seymour, P., Cook, O., Sawatzky, A., Shiwak, I., Flowers C., The Rigolet Inuit Community Government., Cunsolo, A. & Gillis, D.</i>	
2018	SPRING IT CONFERENCE · INVITED KEYNOTE	GUELPH, ON
	Bridging the Digital Divide in the Circumpolar North <i>Durish, N. & Gillis, D.</i>	

2018	SPRING ACADEMIC OPEN HOUSE · INVITED ORAL PRESENTATION Design: The Good, The Bad and The Ugly <i>Durish, N. & Gillis, D.</i>	GUELPH, ON
2018	ARCTICNET · POSTER PRESENTATION Bridging the Digital Divide to Support Community-based Monitoring in the Circumpolar North <i>Durish, N., Gillis, D., Seymour, F., Rourke, K., Asch, M., Raturi, S., Hughes, B., Flowers, C., Shiwak, I., Wood, M. & Ernst, J.</i>	OTTAWA, ON
2018	CEPS UNDERGRADUATE POSTER SESSION · POSTER PRESENTATION Evaluating the Digital Divide in Canada <i>Houlding, P., Durish, N., & Gillis, D.</i> Developing an Instant Messaging Platform Beyond the Digital Divide <i>Seymour, F., Raturi, S., Durish, N., Shiwak, I., Flowers, C., Ernst J., Gillis D.</i>	GUELPH, ON
2017	CENTRE FOR PUBLIC HEALTH AND ZOOSES SYMPOSIUM · POSTER PRESENTATION A Community-led Approach to Contextualize Gamification <i>Durish, N., Seymour, P., Cook, O., *Sawatzky, A., Shiwak, I., Flowers C., The Rigolet Inuit Community Government, Ernst J., Cunsolo A., Harper S. & Gillis D.</i> Connecting Remote Northern Communities with Offline Mobile Applications <i>Seymour, F., Raturi, S., Durish, N., Cook, O., Sawatzky, A., Shiwak I., Flowers C., Rigolet Inuit Government, Harper S., Cunsolo A., Gillis D. & Ernst J.</i>	GUELPH, ON
2017	SOGS GRADUATE POSTER SESSION · POSTER PRESENTATION Comparing broadband speeds between Indigenous and Non-Indigenous communities <i>Durish, N.</i>	GUELPH, ON
2017	ARCTICNET · POSTER PRESENTATION The eNuk Health and Environmental Monitoring System; Improving User Engagement through Social Gaming Elements <i>Durish, N., Gillis, D., Cook, O., Cunsolo, A., Sawatzky, A., Shiwak, I., Flowers, C., the Rigolet Inuit Community Government, and Harper, SL</i> Leveraging Mesh Networks to Design Systems that Connect Remote Northern Communities. <i>Seymour, PF, Durish, N., Cook, O., Cunsolo, A., Harper, SL., Sawatzky, A., Shiwak, I., Flowers, C., Rigolet Inuit Government, and Ernst, J. & Gillis, D.</i> Improving the Connectivity of Rigolet Using the Inuit-led eNuk App and Wireless Mesh Technologies <i>Ernst, J., Seymour, PF, Durish, N., Cook, O., Cunsolo, A., Sawatzky, A., Flowers, C., Shiwak, I., Rigolet Inuit Community Government, Harper, SL. & Gillis, D.</i> Supporting Wildlife Stewardship and Conservation through a Digital Platform for Knowledge Co-Production. <i>Andrachuk, M., Cunsolo, A., Sawatzky, A., Snook, J., Gillis, D., Durish, N., Shiwak, I., Flowers, C., the Rigolet Inuit Community Government & Harper, SL.</i>	QUEBEC-CITY, QB
2016	GUELPH CODING COMMUNITY A Strategic Analysis of Iterative Pareto-Nash Misaligned Games: How Computer Scientists Navigate Trust. <i>Durish, N.</i>	GUELPH, ON
2016	COMPOST COUNCIL OF CANADA; COMPOST CONGRESS · INVITED Student Innovations: Sustain-a-Bin and BioCharzard <i>Durish, N. & Smith, C.</i>	GUELPH, ON

MEDIA LINKS*

2018	MAPLE RIDGE TECH COMPANY ANNOUNCES BRAIN GAIN	MAPLE RIDGE NEWS
2018	U OF G COMPUTER SCIENTISTS PART OF \$2.13 MILLION PROJECT TO IMPROVE DATA SHARING	UOG NEWS
2018	THE SCHOOL OF COMPUTER SCIENCE AND LEFT TO COLLABORATE ON \$2.13 MILLION PROJECT TO IMPROVE...	FIRST MILE
2018	LOOK WHO WON A BUSINESS AWARD!	GUELPH TODAY
2018	SOGS GRAD STUDENT RECEIVES YOUNG INNOVATOR AWARD	SOGS NEWS
2018	YOUNG INNOVATOR FINALISTS - VIDEO	GUELPH CHAMBER OF COMMERCE
2018	CHAMBER CELEBRATES 2018 BUSINESS AWARD RECIPIENTS	GUELPH CHAMBER OF COMMERCE
2018	RIGHTMESH - #TEAMTHURSDAY: INTERVIEW WITH DAN GILLIS & NIC DURISH	RIGHTMESH
2018	COMPUTER SCIENCE STUDENTS RECEIVE PSEER TRAVEL & WORKSHOP AWARD	SOGS NEWS
2018	COMPUTING STUDENTS RECEIVE NSTP AWARD	SOGS NEWS
2018	INTERVIEW: ENUK AND MESHNETS IN NUNATSIAVUT	CBC NORTH
2018	SOGS GRAD STUDENT A FINALIST FOR THE GUELPH CHAMBER OF COMMERCE AWARD FOR EXCELLENCE	SOGS NEWS
2018	COMPUTER SCIENCE MEETS PUBLIC HEALTH: 2018 CPHAZ SYMPOSIUM	CLIMATE CHANGE & GLOBAL HEALTH
2018	CPHAZ SYMPOSIUM FOCUSES ON ONE HEALTH	OVC NEWS
2018	MEET OUR STUDENTS	UNIVERSITY OF GUELPH
2018	CS PROFESSOR WORKING TO IMPROVE LIFE IN THE CIRCUMPOLAR NORTH	SOGS NEWS
2018	A MESHNET WILL HELP THIS INUIT TOWN MONITOR THE EFFECTS OF CLIMATE CHANGE	MOTHERBOARD · VICE
2017	SCHOOL OF COMPUTER SCIENCE GRADUATE AWARDS ANNOUNCED	SOGS NEWS
2017	SUCCESS AT PITCH FOR PROGRESS	SOGS NEWS
2015	SMART COMPOST BIN PUTS A DOLLAR VALUE ON FOOD WASTE	UOG NEWS

2015	<u>WINNING PROJECTS IN GUELPH'S ELEVATOR PROJECT SPAN ART, CULTURE, MUSIC AND FOOD</u>	GUELPH MERCURY
2015	<u>SCOTIABANK CELEBRATES EARTH DAY BY ANNOUNCING THE FINALISTS FOR THE 2015 SCOTIABANK ECOLIVING. ...</u>	TMX MONEY
2015	<u>CORUNNA RESIDENT PART OF TEAM TACKLING COMPOSTING</u>	SARNIA OBSERVER
2015	<u>SMART COMPOST BIN TRANSLATES FOOD WASTE INTO DOLLARS</u>	AGINNOVATIONS ONTARIO
2015	<u>STUDENTS CHALLENGED TO CUT FOOD WASTE</u>	GUELPH MERCURY
2014	<u>FOOD HACK 14</u>	SOC'S NEWS
2009	<u>LEADER IN TRAINING: MORE THAN JUST LEADERSHIP</u>	YMCA ALUMNI NEWSLETTER

References, consultations and further information available upon request.