NIC DURISH

DESIGNER · TINKERER
COMPUTER SCIENTIST

GUELPH, ON
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DURISHN   DURISHN

STRENGTHS

Project Management
Problem Solving
Teamwork
Presentation Skills

TECHNICAL SKILLS

C · Python · Java
MySQL · PostgreSQL
CSS · HTML · Javascript
YAML · Git · Cron · Regex

CERTIFICATIONS

Emergency First Aid
Standard First Aid
CPR (Class C)
Ski Instructor (Level 1)
Ski Coach (Level 1)
Drivers License (Class C)

PERSONAL INTERESTS

Camping · Canoeing · Skiing
Carpentry · Restoration
Automation · Tiny Homes
Backyard Chickens

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 2015   **PUBLIC RELATIONS AND OUTREACH**   ONTARIO UNIVERSITIES FAIR · TORONTO, ON
Met with potential students and parents about the School of Computer Science program at UoG.

2018 2015   **FOOD VENDING SUPPORT**   HILLSIDE FESTIVAL · GUELPH, ON
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 2015   **LEAD COORDINATOR**   GUELPH CODING COMMUNITY · UNIVERSITY OF GUELPH, ON
A student run biweekly tech talk where students meet to share CompSci stories, projects, problems and presentations.

2016 2015   **SECRETARY**   SOCIETY OF COMPUTER AND INFORMATION SCIENCE · UNIVERSITY OF GUELPH, ON
Voted into Secretary of SOCIS; an organization focussed on running and managing student outreach events.

⚒ PROJECTS

Present 2018   **LAWRENCEASSIST**
A custom home automation system deployed on a Raspberry Pi using YAML and hass.io.

Present 2018   **WILDYBUS**
A fully functional, off-grid home built inside a 1991 International School Bus (Instagram: @wildy_bus).

2016 2014   **SUSTAIN-A-BIN**
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 2007   **TOP SKI RACER & JONATHON SWALLOW AWARDS - BATAWA SKI TEAM**   RECIPIENT
Received Multiple Top Racer and Swallow Awards for my successes and leadership on the Batawa Alpine Racing Team.

$ SCHOLARSHIPS & GRANTS

2019 · 2017 GUELPH GRADUATE TUITION SCHOLARSHIP $18,000
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
Gillis, D., & Durish, N.

2018 POLAR KNOWLEDGE: INAUGURAL EDITION · ARTICLE REFEREED
The eNuk Environmental and Health Monitoring Program
Kipp, A., Cunsolo, A., Gillis, D., Sawatzky, A., Cook, O., Durish N., Shiwak I., Flowers C., Rigolet Inuit Community Government & Wood M.

📊 PRESENTATIONS

2019 SPRING IT CONFERENCE · INVITED KEYNOTE GUELPH, ON
Building Foundational Skills & Community Engaged Software Design
Durish, N. & Gillis, D.

2019 LABRADOR RESEARCH FORUM · ORAL PRESENTATION PENDING · HAPPY VALLEY-GOOSE BAY, NF
Supporting Community-Based Monitoring With Technology In The Circumpolar North.
Durish, N. & Gillis, D.

2018 WESTERN STUDENT RESEARCH CONFERENCE PENDING · LONDON, ON
Bridging the Digital Divide with Mobile Ad Hoc Networks in the Circumpolar North.
Asch, M., Rourke, K., Seymour, F., Durish, N., Flowers, C., Wood, M., Gillis, D. & Ernst, J.

2018 INDIGENOUS MAPPING CONFERENCE · INVITED WORKSHOP MONTREAL, QB
Ideation Process, Identifying Problems RightMesh Can Solve I & II.
Gillis, D., Rourke, K., & Durish, N

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.
Durish, N. & Gillis, D.

2018 ARCTICNET · ORAL PRESENTATION OTTAWA, ON
Supporting Community-Based Monitoring in the Circumpolar North.
Gillis, D. & Durish, N.

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.
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.
How Community Engaged Computer Science Can Change the World
Gillis, D., Durish, N., Cook, O., Seymour, F., Gascho, J., Fontanna J., Houlding P., & Williamson D.

2018 GOV-ZERO SUMMIT · ORAL PRESENTATION INVITATION · TAIPEI, TAIWAN
Community Engaged Computer Science: Lessons Learned in the Pursuit of Social Justice
Durish, N.& Gillis, D.

2018 INDIGENOUS MAPPING CONFERENCE · ORAL PRESENTATION OTTAWA, ON
Using Mesh Technology to Support Climate Change Monitoring.
Durish, N., Rourke, K. & Gillis, D.

2018 CENTRE FOR PUBLIC HEALTH AND ZOONOSES SYMPOSIUM · ORAL PRESENTATION GUELPH, ON
Potential Health Impacts of the Digital Divide.
Durish, N., Seymour, P., Cook, O., Sawatzky, A., Shiwak, I., Flowers C., The Rigolet Inuit Community Government., Cunsolo, A. & Gillis, D.

2018 SPRING IT CONFERENCE · INVITED KEYNOTE GUELPH, ON
Bridging the Digital Divide in the Circumpolar North
Durish, N. & Gillis, D.

| 2018 | **SPRING ACADEMIC OPEN HOUSE · INVITED ORAL PRESENTATION** | GUELPH, ON |

Design: The Good, The Bad and The Ugly
Durish, N. & Gillis, D.

2018 **ARCTICNET · POSTER PRESENTATION** GUELPH, ON → OTTAWA, ON

Bridging the Digital Divide to Support Community-based Monitoring in the Circumpolar North
Durish, N., Gillis, D., Seymour, F., Rourke, K., Asch, M., Raturi, S., Hughes, B., Flowers, C., Shiwak, I., Wood, M. & Ernst, J.

2018 **CEPS UNDERGRADUATE POSTER SESSION · POSTER PRESENTATION** GUELPH, ON

Evaluating the Digital Divide in Canada
Houlding, P., Durish, N., & Gillis, D.

Developing an Instant Messaging Platform Beyond the Digital Divide
Seymour, F., Raturi, S., Durish, N., Shiwak, I., Flowers, C., Ernst J., Gillis D.

2017 **CENTRE FOR PUBLIC HEALTH AND ZOONOSES SYMPOSIUM · POSTER PRESENTATION** GUELPH, ON

A Community-led Approach to Contextualize Gamification
*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.*

Connecting Remote Northern Communities with Offline Mobile Applications
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.

2017 **SOCS GRADUATE POSTER SESSION · POSTER PRESENTATION** GUELPH, ON

Comparing broadband speeds between Indigenous and Non-Indigenous communities
Durish, N.

2017 **ARCTICNET · POSTER PRESENTATION** QUEBEC-CITY, QB

The eNuk Health and Environmental Monitoring System; Improving User Engagement through Social Gaming Elements
Durish, N., Gillis, D., Cook, O., Cunsolo, A., Sawatzky, A., Shiwak, I., Flowers, C., the Rigolet Inuit Community Government, and Harper, SL

Leveraging Mesh Networks to Design Systems that Connect Remote Northern Communities.
Seymour, PF., Durish, N., Cook, O., Cunsolo, A., Harper, SL., Sawatzky, A., Shiwak, I., Flowers, C., Rigolet Inuit Government, and Ernst, J. & Gillis, D.

Improving the Connectivity of Rigolet Using the Inuit-led eNuk App and Wireless Mesh Technologies
Ernst, J., Seymour, PF., Durish, N., Cook, O., Cunsolo, A., Sawatzky, A., Flowers, C., Shiwak, I., Rigolet Inuit Community Government, Harper, SL. & Gillis, D.

Supporting Wildlife Stewardship and Conservation through a Digital Platform for Knowledge Co-Production.
Andrachuk, M., Cunsolo, A., Sawatzky, A., Snook, J., Gillis, D., Durish, N., Shiwak, I., Flowers, C., the Rigolet Inuit Community Government & Harper, SL.

2016 **GUELPH CODING COMMUNITY** GUELPH, ON

A Strategic Analysis of Iterative Pareto-Nash Misaligned Games: How Computer Scientists Navigate Trust.
Durish, N.

2016 **COMPOST COUNCIL OF CANADA; COMPOST CONGRESS · INVITED** GUELPH, ON

Student Innovations: Sustain-a-Bin and BioCharzard
Durish, N. & Smith, C.

▤ 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	[SOCS GRAD STUDENT RECEIVES YOUNG INNOVATOR AWARD](#)	SOCS 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](#)	SOCS NEWS
2018	[COMPUTING STUDENTS RECEIVE NSTP AWARD](#)	SOCS NEWS
2018	INTERVIEW: ENUK AND MESHNETS IN NUNATSIAVUT	CBC NORTH
2018	[SOCS GRAD STUDENT A FINALIST FOR THE GUELPH CHAMBER OF COMMERCE AWARD FOR EXCELLENCE](#)	SOCS 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](#)	SOCS 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](#)	SOCS NEWS
2017	[SUCCESS AT PITCH FOR PROGRESS](#)	SOCS NEWS
2015	[SMART COMPOST BIN PUTS A DOLLAR VALUE ON FOOD WASTE](#)	UOG NEWS

2015   WINNING PROJECTS IN GUELPH'S ELEVATOR PROJECT SPAN ART, CULTURE, MUSIC AND FOOD   GUELPH MERCURY

2015   SCOTIABANK CELEBRATES EARTH DAY BY ANNOUNCING THE FINALISTS FOR THE 2015 SCOTIABANK ECOLIVING...   TMX MONEY

2015   CORUNNA RESIDENT PART OF TEAM TACKLING COMPOSTING   SARNIA OBSERVER

2015   SMART COMPOST BIN TRANSLATES FOOD WASTE INTO DOLLARS   AGINNOVATIONS ONTARIO

2015   STUDENTS CHALLENGED TO CUT FOOD WASTE   GUELPH MERCURY

2014   FOOD HACK 14   SOCS NEWS

2009   LEADER IN TRAINING: MORE THAN JUST LEADERSHIP   YMCA ALUMNI NEWSLETTER

References, consultations and further information available upon request.