# NIC DURISH

INNOVATOR · DESIGNER COMPUTER SCIENTIST



GUELPH, ON 1.613.922.9631 N.DURISH@GMAIL.COM



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### **EXPERTISE**

Project Management
Problem Solving
Teamwork
Presentation Skills

#### TECH 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 & Couch (Lvl 1) Drivers License (Class C)

#### INTERESTS

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

### FOREWORD

A hard working and self-motivated individual with strong initiative and enthusiasm who practices excellent diagnostic and problem-solving skills. Commended for his affability productivity, receptiveness, and ability to work with others via strong communication skills. Driven by interests in computation and sustainability.

# **EDUCATION**

2017 MASTER OF SCIENCE: COMPUTER SCIENCE
Present Specialization in Human Computer

UNIVERSITY OF GUELPH

Specialization in Human Computer Interaction

90%+ Graduating Average

Research focus on the Digital Divide; the impacts and causes of disparate access to digital systems and literacy within Canada.

2012 BACHELOR OF COMPUTING

UNIVERSITY OF GUELPH

Minor in Economics & Certification in Business Administration 80%+ Graduating Average

EXPERIENCE

2018 RESEARCH INTERNSHIP

MITACS ACCELERATE · OTTAWA, ON

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2016

Left.io & University of Guelph - The RightMesh Project
Selected as the first intern involved in the \$2.2 million Mitacs
Accelerate Grant, which funds a collaborative research project between an academic institution and organization. I spend 50% of my time at UoG, and 50% at the Left.io office in Maple Ridge, BC, helping to develop the RightMesh Mobile Ad-Hoc Network.

2017 RESEARCH ASSISTANT

UNIVERSITY OF GUELPH · GUELPH. ON

2018 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.

2017 TEACHING ASSISTANT

UNIVERSITY OF GUELPH GUELPH, ON

2018

CIS\*3750 - System Design & Analysis (2 semesters)
Aided Dr. Gillis & Mr. Rea in holding office hours for student
consultations, creating curriculums, slides, and materials, managing
email correspondences, designing and marking student assignments
and tests, invigilating examinations, and teaching weekly labs.

2018 RESEARCH ASSISTANT & DEVELOPER

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 Content Management System to allow for editing by non-programmers.

2015 FOREMAN & QA OFFICER
2017 Managed a 10.5 millio

TREELINE REFORESTATION · ENGLEHART, ON

Managed a 10.5 million tree planting contract, with over 60 employees under the MNR. Responsible for a crew of upwards of 16 planters as well as their training, production, tree quality, wellbeing and safety.

2016 RESEARCH ASSISTANT

UNIVERSITY OF GUELPH · GUELPH. ON

ICON: Ideas Congress

ICON is a multidisciplinary course, that challenges students to address social issues by connecting them with community partners. My responsibilities included assisting both teaching in the classroom and performing research on multidisciplinary pedagogy.

2017 LIFT OPERATOR

MOUNT WASHINGTON ALPINE RESORT · COMOX VALLEY, BC

Operated and maintained the patron-lifts at Mount Washington. Welcomed and interacted with and helped patrons safely mount the lifts, operated lift controls, validated tickets, and assisted ski-patrol.

2015 TEACHING ASSISTANT

UNIVERSITY OF GUELPH · GUELPH. ON

<sup>2016</sup> CIS\*2050 - Computers and Society (2 semesters)

Aided Professors; Dr. Chiu in; holding office hours for student consultations, creating curriculums, slides, and materials,

managing email correspondences, marking student assignments and tests and invigilating examinations.

2013 SILVICULTURIST TREELINE REFORESTATION · ENGLEHART, ON

2014 Cultivated10 million trees over 2 seasons; personally planting over 300,000 trees. Worked long hours in arduous conditions utilizing; good work ethic, time management, and personal and spatial organization.

2012 BAR & HOSTEL MANAGER

THE MAGIC SPONGE · KAMPOT, CAMBODIA

Responsible all operations of the Magic Sponge hostel; managed staff-members, dealt with financial and legal matters, cleaned rooms, mixed and served beverages, served food, and oversaw all customer relations.

2009 CAMP COUNSELLOR. SWIMMING INSTRUCTOR & LIFEGUARD

YMCA CANADA · SUDBURY, ON & BELLEVILLE, ON

Responsible for the wellbeing, safety, happiness, and learning of the children in my classes or camp cabin. At John Island Camp I also taught; canoeing, windsurfing, rock climbing and outdoor living skills.

### **VOL**UNTEER 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 EDUCATION SESSION** NORTHERN LIGHTS ACADEMY · RIGOLET, NF

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

2015 **PUBLIC RELATIONS AND OUTREACH** ONTARIO UNIVERSITIES FAIR - TORONTO, ON

2018 Met with potential students and parents about the School of Computer Science program at UoG.

2015 FOOD VENDING SUPPORT HILLSIDE FESTIVAL · GUELPH, ON

<sup>2018</sup> 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.

2015 LEAD COORDINATOR GUELPH, ON

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

2015 SECRETARY SOCIETY OF COMPUTER AND INFORMATION SCIENCE · UNIVERSITY OF GUELPH, ON

2016 Voted into Secretary of SOCIS; an organization focussed on running and managing student outreach events.

2010 **VICE PRESIDENT & PRESIDENT** CENTENNIAL SECONDARY SCHOOL'S STUDENT COUNCIL · BELLEVILLE, ON

Voted into executive student council positions by the Centennial Secondary School student body.

### PROJECTS

2017 **ENUK** 

Present A health and environment monitoring Android and Web application, built for and by the Inuit of Rigolet, Nunatsiavut.

2018 LAWRENCEASSIST

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

2018 WILDYBUS

Present A fully functional, off-grid home built inside a 1991 International School Bus (Instagram: @wildy\_bus).

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

Organized by the Guelph Chamber of Commerce, the annual Awards of Excellence is Guelph's premier appreciation event of the year for Innovative community members.

2018 CPHAZ SYMPOSIUM STUDENT SPEED PRESENTATIONS

3RD PLACE · \$100

Won 3rd place in the 2 minute Student Presentation Competition at the Centre for Public Health and Zoonoses Annual Symposium, presenting on the benefits of Mobile Mesh Networks for Rural Health.

2018 SCHOOL OF COMPUTER SCIENCE TEACHING ASSISTANT AWARD

NOMINATION

The University of Guelph's, SoCS Teaching Assistant Award of Excellence recognized "the outstanding contribution of a teaching assistant in improving the undergraduate learning environment".

2015 COMPUTER SCIENCE GAMES · SOCIAL COMPUTING COMPETITION

12TH PLACE

Participated in the 2015 Computer Science Games competing against 28 universities across Ontario. I personally represented UoG in Web Design, Database Design placing 4th, and Sports placing 1st.

2015 SCOTIABANK ECOLIVING AWARD

TOP 3 FINALIST

The ElecTrickle team came in the Top 3 nationally in the Student Category, winning funding and a meeting with business mogul Arlene Dickinson, for establishing a product with environmental benefit

2015 HUMAN FACTOR AWARD

RECIPIENT · \$200

Awarded to the team that had developed a solution that best took human factors into consideration, including user experience, interface, feedback, emotions and engagement.

2015 NET ZERO HACKATHON

1ST PLACE · \$1500

Students were tasked with developing a solution to reduce the effects of climate change. We produced an Android Application to serve as the middleman between energy companies and consumers.

2015 10TH ANNUAL UNIVERSITIES FIGHTING WORLD HUNGER'S PITCH FOR PROGRESS

1ST PLACE · \$2000

College of Business and Economics & Centre for Business and Social Entrepreneurship hosted the event, to help start-ups such as Sustain-a-Bin that focussed on social and environmental change.

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

Our team of 4 developed an autonomous composting bin, called "Sustain-a-Bin" which collected data helps the user quantify their waste during the F9B Challenge to reduce Food Insecurity on campus.

2007 TOP SKI RACER & JONATHON SWALLOW AWARDS - BATAWA SKI TEAM

RECIPIENT

Received Top Racer (2007-2009) and the Jonathon Swallow (2009) Awards for my success and leadership respectively on the alpine ski racing team.

2007 CANADA WIDE SCIENCE FAIR

HONOURS

Attended the Canada Wide Science Fair in 2007, representing my school board with 2 other team.

### S SCHOLARSHIPS & GRANTS

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.

# **D** 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.

2018 INTERNATIONAL JOURNAL OF CIRCUMPOLAR HEALTH - INVITATIONAL ARTICLE

PENDING ACCEPTANCE · REFEREED

Climate Change, Wellness & The Digital Divide in the Circumpolar North.

Durish, N., Ernst, J. & Gillis, D.

### PRESENTATIONS

#### **WORKSHOPS**

2018

2018 INDIGENOUS MAPPING CONFERENCE - INVITATION

INVITATION · MONTREAL, QB

Ideation Process, Identifying Problems RightMesh Can Solve I & II.

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

COMMUNITY-BASED ENVIRONMENTAL MONITORING WORKSHOP

INVITATION · IOAI UIT. NU

Developing an Inuit-led Community Health and Environment Monitoring System using MANETS in Rigolet, Nunatsiavut. Durish, N. & Gillis, D.

#### ORAL PRESENTATIONS

2019 LABRADOR RESEARCH FORUM

HAPPY VALLEY-GOOSE BAY, NF

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

Gillis, D., Durish, N., Rourke, K., Asch, M., Knarr, J., Kipp, A., Sawatzky, A., Middleton, J., Borish, D., Bell, I., Cunsolo, A., Shiwak, I., Flowers, C., Wood, M. & Harper, S.

Bridging the Digital Divide 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.

2019 WESTERN STUDENT RESEARCH CONFERENCE

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 ARCTICNET OTTAWA. ON

Supporting Community-Based Monitoring in the Circumpolar North.

Gillis, D. & Durish, N.

2018 PEOPLE. PLACES AND PUBLIC ENGAGEMENT

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. & Frnst 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 MITACS FUNDING ANNOUNCEMENT EVENT

MAPLE RIDGE, BC

Acknowledging the effects of Mitacs funding on Student Interns

Durish, N.

2018 **GOV-ZERO SUMMIT** INVITATION · TAIPEI, TAIWAN

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

Durish, N.& Gillis, D.

2018 INDIGENOUS MAPPING CONFERENCE

OTTAWA, ON

Using Mesh Technology to Support Climate Change Monitoring. Durish, N., Rourke, K. & Gillis, D.

2018 CENTRE FOR PUBLIC HEALTH AND ZOONOSES SYMPOSIUM

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 KEYNOTE · GUELPH, ON

Bridging the Digital Divide in the Circumpolar North

Durish, N. & Gillis, D.

SPRING ACADEMIC OPEN HOUSE 2017

INVITATION · GUELPH. ON

Design: The Good, The Bad and The Ugly

Durish, N. & Gillis, D.

ARCTICNET 2017 QUEBEC-CITY, QB

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

**GUELPH CODING COMMUNITY** 

GUELPH, ON

2016 A Strategic Analysis of Iterative Pareto-Nash Misaligned Games: How Computer Scientists Navigate Trust. Durish, N.

COMPOST COUNCIL OF CANADA: COMPOST CONGRESS 2016

INVITATION · GUELPH, ON

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

#### POSTER PRESENTATIONS

2018 ARCTICNET 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.

CEPS UNDERGRADUATE POSTER SESSION 2018 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.

CENTRE FOR PUBLIC HEALTH AND ZOONOSES SYMPOSIUM 2018

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.,

Connecting Remote Northern Communities with Offline Mobile Applications

Seymour, F., Raturi, S., Durish, N., Cook, O., Sawatzky, A., Shiwak I., Flowers C., Rigolet Inuit Community Government, Harper S., Cunsolo A., Gillis D. & Ernst J.

SOCS GRADUATE POSTER SESSION GUELPH, ON

2017 Comparing broadband speeds between Indigenous and Non-Indigenous communities Durish, N.

ARCTICNET 2017 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 Community 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.

### MEDIA LINKS\*

MAPLE RIDGE TECH COMPANY ANNOUNCES BRAIN GAIN 2018 MAPLE RIDGE NEWS

U OF G COMPUTER SCIENTISTS PART OF \$2.13 MILLION PROJECT TO IMPROVE DATA SHARING 2018 **UOG NEWS** 

THE SCHOOL OF COMPUTER SCIENCE AND LEFT TO COLLABORATE ON \$2.13 MILLION PROJECT TO IMPROVE... 2018 FIRST MILE

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

ļ P	2018	CHAMBER CELEBRATES 2018 BUSINESS AWARD RECIPIENTS	GUELPH CHAMBER OF COMMERCE
þ	2018	RIGHTMESH - #TEAMTHURSDAY; INTERVIEW WITH DAN GILLIS & NIC DURISH	RIGHTMESH
þ	2018	COMPUTER SCIENCE STUDENTS RECEIVE PSEER TRAVEL & WORKSHOP AWARD	SOCS NEWS
þ	2018	COMPUTING STUDENTS RECEIVE NSTP AWARD	SOCS NEWS
þ	2018	INTERVIEW: ENUK AND MESHNETS IN NUNATSIAVUT	CBC NORTH
þ	2018	SOCS GRAD STUDENT A FINALIST FOR THE GUELPH CHAMBER OF COMMERCE AWARD FOR EXCELLENCE	SOCS NEWS
þ	2018	COMPUTER SCIENCE MEETS PUBLIC HEALTH: 2018 CPHAZ SYMPOSIUM	CLIMATE CHANGE & GLOBAL HEALTH
þ	2018	CPHAZ SYMPOSIUM FOCUSES ON ONE HEALTH	OVC NEWS
þ	2018	MEET OUR STUDENTS	UNIVERSITY OF GUELPH
þ	2018	CS PROFESSOR WORKING TO IMPROVE LIFE IN THE CIRCUMPOLAR NORTH	SOCS NEWS
þ	2018	A MESHNET WILL HELP THIS INUIT TOWN MONITOR THE EFFECTS OF CLIMATE CHANGE	MOTHERBOARD · VICE
þ	2017	SCHOOL OF COMPUTER SCIENCE GRADUATE AWARDS ANNOUNCED	SOCS NEWS
þ	2017	SUCCESS AT PITCH FOR PROGRESS	SOCS NEWS
\ \	2015	SMART COMPOST BIN PUTS A DOLLAR VALUE ON FOOD WASTE	UOG NEWS
þ	2015	WINNING PROJECTS IN GUELPH'S ELEVATOR PROJECT SPAN ART, CULTURE, MUSIC AND FOOD	GUELPH MERCURY
þ	2015	SCOTIABANK CELEBRATES EARTH DAY BY ANNOUNCING THE FINALISTS FOR THE 2015 SCOTIABANK EC	OLIVING TMX MONEY
þ	2015	CORUNNA RESIDENT PART OF TEAM TACKLING COMPOSTING	SARNIA OBSERVER
ļ	2015	SMART COMPOST BIN TRANSLATES FOOD WASTE INTO DOLLARS	AGINNOVATIONS ONTARIO
þ	2015	STUDENTS CHALLENGED TO CUT FOOD WASTE	GUELPH MERCURY
þ	2014	FOOD HACK 14	SOCS NEWS
	2009	LEADER IN TRAINING: MORE THAN JUST LEADERSHIP	YMCA ALUMNI NEWSLETTER